



Regal Petrochemical Product Collection
Catalogue

Today,
we experience
tomorrow



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Welcome

We are proud to present the catalogue for the Regal company



Regal Petrochemical

Regal Petrochemical Company (RPC) is the first full private petrochemical company, located in Mahshahr special petrochemical zone, Iran. This strategic location provides both land and sea access, assuring excellent delivery advantages, and competitive freight charges. The plant has been basically designed by ABB Lummus with the license of Novolen technology (gas phase). In fact, RPC is a precursor to the execution of a PP plant in Iran. Regal is a solely private company that accomplished all EPC phases of its PP project by itself with the support of powerfully owned teams of engineering, procurement and construction. This reliable, versatile, and environmentally clean process makes products meet the requirements of even the most demanding applications. Polypropylene is a versatile thermoplastic material compatible with numerous processing techniques and used in many different commercial applications. It is one of the fastest growing classes of thermoplastic commodities. Moderate cost, lightness and favorable properties of polypropylene contribute to this growth rate. RPC offers raw materials for applying in production processes such as injection, blow molding, general extrusion, thermoforming, spinning, film, and sheet. Our comprehensive range of polypropylene homopolymers, random and block copolymers satisfy the market demand in many cases.

-  **Established PP plant in 2000 (220.000 t/y)**

Regal Petrochemical Company (RPC)
Producer of polypropylene PP grades and varieties in Iran






As the first petrochemicals to fully operate privately in this industry, we had the opportunity to develop new ideas and technologies to more efficiently produce high quality polypropylene with the vision of having outstanding properties in mind at all times.

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Product Categories

Here at Regal Petrochemical we have been producing three important PP categories at our plant for years with experience and close connections to our customers. We have been following important trends in the market to provide what is needed as soon as possible.

-  **Close customer interaction for quality maximization**
-  **100+ high quality polypropylene grades & varieties**
-  **15+ years of experience in production of PP**

With specialized human resources who tirelessly work to produce the needed grades, our company has achieved new objectives and missions to preserve this long-lasting quality and variety at the same time. With sustainability in mind at all times, our goal is to leave the least carbon print while producing. On the other hand, polypropylene is known to be one of the best solutions, as well as being a better biodegradable product than other plastics.

Homopolymer ●

Our product categories are simple but express the outstanding effort and quality that we offer to every single customer in our markets.

Block Copolymer ●

We are opened in developing new product grades and to come up with new solutions regarding polypropylene at all times with great precision.

Random Copolymer ●

1



2



3





Homopolymer

Homopolymer is the first product category in Regal Petrochemical plant. Homopolymer PP is made by polymerizing propylene. Homopolymers are more rigid and have better resistance to high temperatures than copolymers but their impact strength at temperatures below zero is limited. The primary application of homopolymers is in the extrusion of fibers and filaments for cordage, webs, carpet backing and face yarns, upholstery fabrics, apparel, filters, geotextiles, disposable diapers, medical fabrics, fabric for automobile interiors, bags, and strapping tape. Oriented and unoriented films are also extruded for pressure-sensitive tapes, electrical applications, shrink film, and packaging for retortable pouches. Sheets greater than 250 μm in thickness are used for counter tops and tank liners; thinner sheets are thermoformed into packaging containers. Injection molded homopolymers are used in automobile parts, appliances, housewares, packaging containers, trigger sprayers, furniture, and toys.



Homopolymer

First product category uses in wide range of areas



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RG 1001 M

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

High stiffness injection moulded parts, special extrusion applications

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	2000
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	39
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	158
Ball indentation hardness	ISO 2039-1	MPa	90
HDT (0.46 N/mm2)	ASTM D648	°C	109
Melting Point , DSC	ASTM D3417	°C	165
Density	ASTM D792	gr/cm3	0.91

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RG 1001 P

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

High stiffness injection moulded parts, special extrusion applications

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	15
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	2000
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	40
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	158
Ball indentation hardness	ISO 2039-1	MPa	90
HDT (0.46 N/mm2)	ASTM D648	°C	110
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1002 G

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

High stiffness thermoformed parts, special extrusion applications

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	1
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	2000
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	38
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	158
Ball indentation hardness	ISO 2039-1	MPa	80
HDT (0.46 N/mm2)	ASTM D648	°C	108
Melting Point , DSC	ASTM D3417	°C	165
Density	ASTM D792	gr/cm3	0.91

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RG 1002 H

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

High stiffness thermoformed parts, special extrusion applications

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	2000
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	38
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	158
Ball indentation hardness	ISO 2039-1	MPa	80
HDT (0.46 N/mm2)	ASTM D648	°C	108
Melting Point , DSC	ASTM D3417	°C	165
Density	ASTM D792	gr/cm3	0.91

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RG 1002 L

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

High stiffness thermoformed & injection moulded parts, special extrusion applications

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	6
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	2000
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	38
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	158
Ball indentation hardness	ISO 2039-1	MPa	80
HDT (0.46 N/mm2)	ASTM D648	°C	108
Melting Point , DSC	ASTM D3417	°C	165
Density	ASTM D792	gr/cm3	0.91

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

General injection moulding, closures, caps, housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	11
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	2000
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	40
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	158
Ball indentation hardness	ISO 2039-1	MPa	93
HDT (0.46 N/mm2)	ASTM D648	°C	110
Melting Point , DSC	ASTM D3417	°C	165
Density	ASTM D792	gr/cm3	0.91

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RG 1040 K

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

High stiffness thermoforming applications

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	3.4
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1900
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	38
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	158
Ball indentation hardness	ISO 2039-1	MPa	100
HDT (0.46 N/mm2)	ASTM D648	°C	108
Melting Point , DSC	ASTM D3417	°C	165
Density	ASTM D792	gr/cm3	0.91

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RG 1040 N



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

High stiffness injection moulding applications, furniture, housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	11
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	2000
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	40
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	158
Ball indentation hardness	ISO 2039-1	MPa	93
HDT (0.46 N/mm2)	ASTM D648	°C	110
Melting Point , DSC	ASTM D3417	°C	165
Density	ASTM D792	gr/cm3	0.91

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RG 1040 RC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Furniture, thinwalled packaging, housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	22
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	2000
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	40
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	157
Ball indentation hardness	ISO 2039-1	MPa	93
HDT (0.46 N/mm2)	ASTM D648	°C	105
Melting Point , DSC	ASTM D3417	°C	165
Density	ASTM D792	gr/cm3	0.91

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RG 1084 K

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thermoformed cups for diary products, desserts and thin sheets for food packaging

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	3.2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	2000
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	38
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	158
Ball indentation hardness	ISO 2039-1	MPa	85
HDT (0.46 N/mm2)	ASTM D648	°C	108
Melting Point , DSC	ASTM D3417	°C	165
Density	ASTM D792	gr/cm3	0.91

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RG 1100 H

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

General injection moulding, closures, caps

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1450
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	33
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	72
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1100 L

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thermoformed cups for diary products, desserts and thin sheets for food packaging

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	6
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	74
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

General injection moulding, closures, housewares, furniture

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	11
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1100 RC



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Furniture, thinwalled packaging, closures

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	22
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	153
Ball indentation hardness	ISO 2039-1	MPa	72
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1100 UC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Closures, thin walled packaging, medical lab equipments

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	75
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	80
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1100 VC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Technical applications

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	110
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	80
HDT (0.46 N/mm2)	ASTM D648	°C	90
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 M

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Staple coarse fibers, carpet face yarn, needlefelt carpets

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	9
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.6
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	77
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 N

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Fine denier staple fibers, continuous filaments, automotive applications

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	11
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 P

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Bulk continuous filaments(BCF) and continuous filaments(CF) with higher resilience

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	15.5
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	70
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

BCF/CF, POY yarns, Nonwovens, Injection moulding of articles

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	20
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 RC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Nonwovens spunbonded, BCF/CF, POY yarns, Injection moulding of articles

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	22
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.7
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	74
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 S

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Preferred grade for BCF/CF, carpet yarns, POY/DTY, extrusion laminating

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	24
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 SC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Nonwovens spunbonded, disposable napkins, diaper, geotextiles, filter application

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	28
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.7
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	74
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 SL

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Preferred grade for extrusion laminating, general injection molding

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	25
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 XN

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Fine denier staple fibers, continuous filaments, automotive applications

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	13
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 XP

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Bulk continuous filaments(BCF) and continuous filaments(CF) with higher resilience

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	17
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	70
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 XR

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

BCF/CF, POY yarns, Nonwovens, Injection moulding of articles

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	21
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 XS

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

POY/DTY, CF, laminating

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	28
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 XXR

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

BCF/CF, POY yarns, Nonwovens, Injection molding of articles

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	23
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1101 XXS

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Injection moulding articles, compounding

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	35
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1102 G

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thermoformed parts(high thickness or big size), tape yarns, monofilaments, strapping, sheets

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	1
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1400
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	6
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2
Vicat Softening Point, 10N	ASTM D1525	°C	155
Ball indentation hardness	ISO 2039-1	MPa	70
HDT (0.46 N/mm2)	ASTM D648	°C	90
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1102 H

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thermoformed parts, containers and lids for dairy/food products, desserts, tape yarns

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1450
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.9
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	72
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1102 J

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

General thermoforming, diary products, desserts, tapes, carpet backing

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	2.5
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1450
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.9
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	72
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1102 K



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thermoformed parts, dairy products, tape yarn, raffia, monofilaments, strapping carpet

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	3.2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.7
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	74
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1102 L

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Extrusion and injection moulding applications, raffia, tapes, monofilaments, diary products

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	6
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	74
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1102 M



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Cast films, OPP films(double bubble process), raffia, wrapping yarns, injection molding articles

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.6
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	77
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1102 N

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

General injection moulding, closures, housewares, furniture

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	11
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1102 XK



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Raffia, tape yarn, technical textiles, carpet backing, diary products

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	4
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.7
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	74
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1102 XL

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thermoformed parts, dairy products, tape yarn, raffia, monofilaments, strapping, carpet backing

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	5.5
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.7
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	74
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1104 H

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

BOPP films-metallizable (Stenter Frame Process), General extrusion application

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1450
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.9
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	72
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1104 J

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

BOPP films-metallizable (Stenter Frame Process), General extrusion application

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	2.5
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.7
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	74
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1104 K



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

BOPP films-metallizable (Stenter Frame Process), General extrusion application

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	3.2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.7
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	74
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1104 XK

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

BOPP films-metallizable (Stenter Frame Process), General extrusion application

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	4
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.7
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	74
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1125 MC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Cast films (medium slip) for all kind of packaging e.g. Flower & food

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8.5
Tear strength(Longitudinal/Transverse)	DIN 53455	MPa	40/36
Elongation at break(Longitu./Trans.)	DIN 53455	%	660/680
Flexural modulus (Longitu./Trans.)	DIN 53121	MPa	650/630
Dart drop impact strength F50	ASTM D1709	gr	330
Coefficient of sliding friction	DIN 53375	-	0.25
Melting Point , DSC	ASTM D3417	°C	163
Gloss(20°)	ISO 2813	%	120
Haze	ASTM D1003	%	1.8
Density	ASTM D792	gr/cm3	0.91

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RG 1128 MC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Cast films with high slip behaviour for all kind of packaging and stationary films

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8.5
Tear strength(Longitudinal/Transverse)	DIN 53455	MPa	40/36
Elongation at break(Longitu./Trans.)	DIN 53455	%	660/680
Flexural modulus (Longitu./Trans.)	DIN 53121	MPa	650/630
Dart drop impact strength F50	ASTM D1709	gr	330
Coefficient of sliding friction	DIN 53375	-	0.2
Melting Point , DSC	ASTM D3417	°C	163
Gloss(20°)	ISO 2813	%	120
Haze	ASTM D1003	%	1.9
Density	ASTM D792	gr/cm3	0.91

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RG 1128 N

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Cast films for packaging and stationary films (high slip and antiblock behaviour)

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	11
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	42/38
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	700/670
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	76
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

Today,
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RG 1142 K

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thermoformed packaging parts e.g. High transparency dairy and dessert cups

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	3.2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1600
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	37
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	90
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1148 RC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thin walled packaging, dessert and yogurt cups, closures, housewares, housings

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	22
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1650
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	95
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1148 TC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thin walled packaging, dessert and yogurt cups, housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	53
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1600
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	80
HDT (0.46 N/mm2)	ASTM D648	°C	95
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1148 UC

Today,
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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thin walled packaging, dessert and yogurt cups, housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	75
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1700
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1
Vicat Softening Point, 10N	ASTM D1525	°C	155
Ball indentation hardness	ISO 2039-1	MPa	83
HDT (0.46 N/mm2)	ASTM D648	°C	100
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1150 N

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

General injection moulding, furniture, closures, housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	11
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.3
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1150 RC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Hinge and screw closures with low opening forces, easy demolding

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	22
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1500
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	34
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.3
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	72
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1184 L

www.regalpetro.com



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thermoformed packaging like diary cups, food packaging, suitable as a coextrud antistatic layer

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	6
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1600
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	36
Elongation at Yield(50 mm/min)	ASTM D638	%	9
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.7
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	90
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1191 N



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Staple fibers (fine denier), hygienic nonwoven fabrics (NWF)

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	11
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 1191 XN

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Staple fibers (fine denier), hygienic nonwoven fabrics (NWF)

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	13
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	35
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	78
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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2

Block Copolymer

Block Copolymer is the second product category in Regal Petrochemical plant. In block copolymers, the ethylene content is much higher than random copolymers. The copolymerized part of the material is rubbery and forms a separate dispersed phase within the PP matrix. As a result, block copolymerized PP is much tougher than homopolymerized PP and can withstand higher impact even at low temperatures but at the expense of transparency and softening points. The main applications of block copolymerized PP are similar to those of elastomer-modified PP but where the impact property requirement is not that critical. Block compolyers are primarily used in injection molding parts for appliances, housewares, luggage, outdoor furniture and automotive applications. Other applications include extruded sheeting and substitutions of super impact grades for engineering thermoplastics such as ABS. Extruded sheets can be thermoformed into large, thick parts such as fender and trunk liners for automotive applications or into small, odd-shaped parts such as food containers for freezer-to-microwave use.



Block Copolymer

Grades that are used to produce strong and durable products



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RG 2240 P

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Furniture, housewares, cylindrical containers, crates

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	15
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1600
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	31
Elongation at Yield(50 mm/min)	ASTM D638	%	6
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2
Vicat Softening Point, 10N	ASTM D1525	°C	152
Ball indentation hardness	ISO 2039-1	MPa	69
HDT (0.46 N/mm2)	ASTM D648	°C	95
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2248 P

Today,
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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Furniture, housewares, cylindrical containers, crates

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	16.5
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	28
Elongation at Yield(50 mm/min)	ASTM D638	%	5
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	7
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	147
Ball indentation hardness	ISO 2039-1	MPa	69
HDT (0.46 N/mm2)	ASTM D648	°C	90
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

Today,
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RG 2248 TC

www.regalpetro.com



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Furniture, housewares, cylindrical containers, crates and fridge applications

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	48
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	29
Elongation at Yield(50 mm/min)	ASTM D638	%	5
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2
Vicat Softening Point, 10N	ASTM D1525	°C	152
Ball indentation hardness	ISO 2039-1	MPa	69
HDT (0.46 N/mm2)	ASTM D648	°C	98
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2248 VC

Today,
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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thin walled injection moldings e.g. diary products, large and complicated products

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	92
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1750
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	32
Elongation at Yield(50 mm/min)	ASTM D638	%	6
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2.6
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	154
Ball indentation hardness	ISO 2039-1	MPa	83
HDT (0.46 N/mm2)	ASTM D648	°C	91
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2300 K

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Crates, containers and closures

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	3.2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1200
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	27
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	10.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	150
Ball indentation hardness	ISO 2039-1	MPa	53
HDT (0.46 N/mm2)	ASTM D648	°C	75
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2300 L

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

General injection molding, housewares, closures, cylindrical containers, furniture

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	6
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1250
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	26
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	7.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	151
Ball indentation hardness	ISO 2039-1	MPa	53
HDT (0.46 N/mm2)	ASTM D648	°C	77
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2300 XK

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Crates, containers and closures

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	4
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1200
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	27
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	10.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	150
Ball indentation hardness	ISO 2039-1	MPa	53
HDT (0.46 N/mm2)	ASTM D648	°C	75
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2340 P

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Housewares, crates, cylindrical containers, furniture

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	15
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1400
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	28
Elongation at Yield(50 mm/min)	ASTM D638	%	6
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	7
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	151
Ball indentation hardness	ISO 2039-1	MPa	63
HDT (0.46 N/mm2)	ASTM D648	°C	90
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2348 M

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Cylindrical containers, housewares, closures

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1400
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	28
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	9
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	151
Ball indentation hardness	ISO 2039-1	MPa	63
HDT (0.46 N/mm2)	ASTM D648	°C	90
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2348 TC

Today,
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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thin walled packaging, housewares, closures, dairy cups

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	48
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1350
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	27
Elongation at Yield(50 mm/min)	ASTM D638	%	5
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	151
Ball indentation hardness	ISO 2039-1	MPa	62
HDT (0.46 N/mm2)	ASTM D648	°C	90
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2440 K

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Crates and containers

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	3.5
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1250
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	25
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	16
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	4.5
Vicat Softening Point, 10N	ASTM D1525	°C	150
Ball indentation hardness	ISO 2039-1	MPa	50
HDT (0.46 N/mm2)	ASTM D648	°C	80
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2440 P

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

General injection molding, housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	16
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1250
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	25
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	9.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	4
Vicat Softening Point, 10N	ASTM D1525	°C	150
Ball indentation hardness	ISO 2039-1	MPa	54
HDT (0.46 N/mm2)	ASTM D648	°C	80
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2448 L

www.regalpetro.com



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Cylindrical containers, housewares, closures

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	6
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1150
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	24
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	18
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	5
Vicat Softening Point, 10N	ASTM D1525	°C	150
Ball indentation hardness	ISO 2039-1	MPa	50
HDT (0.46 N/mm2)	ASTM D648	°C	80
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2448 TC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thin walled injection molding, housewares, margarine tubs

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	50
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1250
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	27
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	150
Ball indentation hardness	ISO 2039-1	MPa	52
HDT (0.46 N/mm2)	ASTM D648	°C	86
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2500 H

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Crates and containers

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1100
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	23
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	60P*
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	7
Vicat Softening Point, 10N	ASTM D1525	°C	148
Ball indentation hardness	ISO 2039-1	MPa	44
HDT (0.46 N/mm2)	ASTM D648	°C	80
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2500 MC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Luggage, housewares, crates and containers

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1000
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	21
Elongation at Yield(50 mm/min)	ASTM D638	%	8
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	40P*
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	5
Vicat Softening Point, 10N	ASTM D1525	°C	144
Ball indentation hardness	ISO 2039-1	MPa	43
HDT (0.46 N/mm2)	ASTM D648	°C	78
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2600 M

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Luggage, crates and containers, housewares, ice cream cups

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1150
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	21
Elongation at Yield(50 mm/min)	ASTM D638	%	6
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	45P*
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	6
Vicat Softening Point, 10N	ASTM D1525	°C	144
Ball indentation hardness	ISO 2039-1	MPa	46
HDT (0.46 N/mm2)	ASTM D648	°C	80
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2600 TC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Luggage, crates and containers, housewares, ice cream cups, thin walled packaging

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	48
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	950
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	19
Elongation at Yield(50 mm/min)	ASTM D638	%	5
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	8
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	3.5
Vicat Softening Point, 10N	ASTM D1525	°C	142
Ball indentation hardness	ISO 2039-1	MPa	44
HDT (0.46 N/mm2)	ASTM D648	°C	78
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2640 L

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Luggage, housewares, crates and containers

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	6
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1200
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	21
Elongation at Yield(50 mm/min)	ASTM D638	%	4.5
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	50P*
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	6.5
Vicat Softening Point, 10N	ASTM D1525	°C	150
Ball indentation hardness	ISO 2039-1	MPa	50
HDT (0.46 N/mm2)	ASTM D648	°C	88
Melting Point , DSC	ASTM D3417	°C	165
Density	ASTM D792	gr/cm3	0.91

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RG 2640 PC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Luggage, housewares, crates and containers

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	15
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1200
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	21.5
Elongation at Yield(50 mm/min)	ASTM D638	%	5
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	11.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	5
Vicat Softening Point, 10N	ASTM D1525	°C	150
Ball indentation hardness	ISO 2039-1	MPa	50
HDT (0.46 N/mm2)	ASTM D648	°C	88
Melting Point , DSC	ASTM D3417	°C	165
Density	ASTM D792	gr/cm3	0.91

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RG 2700 L

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Cable wheels, automotive(bumpers, mudguards, fender, battery cases)

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	6
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	900
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	17
Elongation at Yield(50 mm/min)	ASTM D638	%	6
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	55P*
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	8
Vicat Softening Point, 10N	ASTM D1525	°C	137
Ball indentation hardness	ISO 2039-1	MPa	35
HDT (0.46 N/mm2)	ASTM D648	°C	74
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2800 K

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Automotive(bumpers, fender, battery cases), compounding(impact modifier)

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	3.2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	800
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	15
Elongation at Yield(50 mm/min)	ASTM D638	%	6
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	65P*
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	9
Vicat Softening Point, 10N	ASTM D1525	°C	132
Ball indentation hardness	ISO 2039-1	MPa	32
HDT (0.46 N/mm2)	ASTM D648	°C	74
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2800 XK

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Automotive(bumpers, fender, battery cases), compounding(impact modifier)

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	4
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	800
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	15
Elongation at Yield(50 mm/min)	ASTM D638	%	6
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	65P*
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	9
Vicat Softening Point, 10N	ASTM D1525	°C	132
Ball indentation hardness	ISO 2039-1	MPa	32
HDT (0.46 N/mm2)	ASTM D648	°C	74
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2900 H

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Automotive(bumpers, fender, battery cases), compounding(impact modifier)

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	650
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	13
Elongation at Yield(50 mm/min)	ASTM D638	%	4
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	95P*
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	17
Vicat Softening Point, 10N	ASTM D1525	°C	115
Ball indentation hardness	ISO 2039-1	MPa	22
HDT (0.46 N/mm2)	ASTM D648	°C	62
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 2900 NC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Automotive(bumpers, fender, battery cases), compounding(impact modifier)

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	11
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	550
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	12
Elongation at Yield(50 mm/min)	ASTM D638	%	3.5
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	85P*
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	15
Vicat Softening Point, 10N	ASTM D1525	°C	111
Ball indentation hardness	ISO 2039-1	MPa	20
HDT (0.46 N/mm2)	ASTM D648	°C	59
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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3

Random Copolymer

Random Copolymer is the third product category in Regal Petrochemical plant. The random copolymer of PP contains chains with a small number of ethylene or higher olefin units (such as butene or hexane), dispersed randomly among the propylene units. The presence of ethylene in the polymer chain reduces the tendency to crystallize and results in improved impact strength, a softer feel, a wider range of heat seal ability, resistance to creasing and improved clarity. Due to the lower crystallinity, random copolymers have a lower melting point and specific gravity than the homopolymer. Random copolymers are primarily used in film, blow molding, and injection molding applications that require high clarity, good impact strength at low temperatures, some stiffness, and moisture barrier properties. Blow molding applications include hot-filled and multilayer barrier bottles and refrigerated products for medical and food packaging. Rigid and semi-rigid packaging, video cassette cases, toys, storage trays, and reusable food containers are injection molded. Film applications include flexible packaging and consumer products. Unoriented heat-seal films are used for packaging in food and clothing and to provide strength and barrier layers in disposable diapers. Oriented films provide high clarity, gloss, and strength for shrink-wrap applications in toys, games, cigarettes, and foods.



RPC

RG 3048 TC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thin walled packaging with high transparency, housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	48
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	2000
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	39
Elongation at Yield(50 mm/min)	ASTM D638	%	7
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	2
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1
Vicat Softening Point, 10N	ASTM D1525	°C	155
Ball indentation hardness	ISO 2039-1	MPa	90
HDT (0.46 N/mm2)	ASTM D648	°C	100
Melting Point , DSC	ASTM D3417	°C	163
Density	ASTM D792	gr/cm3	0.91

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RG 3200 MC



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Stationary films, hygienic applications, food packaging, laminating films

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	900
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	25
Elongation at Yield(50 mm/min)	ASTM D638	%	11
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	6.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	130
Ball indentation hardness	ISO 2039-1	MPa	50
HDT (0.46 N/mm2)	ASTM D648	°C	68
Melting Point , DSC	ASTM D3417	°C	145
Density	ASTM D792	gr/cm3	0.91

RG 3202 G

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Blown films, high transparency thermoforming, sheet, food packaging, high clarity lids

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	1
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1250
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	31
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	6
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	130
Ball indentation hardness	ISO 2039-1	MPa	56
HDT (0.46 N/mm2)	ASTM D648	°C	80
Melting Point , DSC	ASTM D3417	°C	150
Density	ASTM D792	gr/cm3	0.91

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RG 3202 H



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Blown films, high transparency thermoforming, sheet, food packaging, high clarity lids

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1250
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	31
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	6
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	130
Ball indentation hardness	ISO 2039-1	MPa	56
HDT (0.46 N/mm2)	ASTM D648	°C	80
Melting Point , DSC	ASTM D3417	°C	150
Density	ASTM D792	gr/cm3	0.91

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RG 3202 S

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Coating of woven cloth bags, transparent and flexible housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	25
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	530
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	22
Elongation at Yield(50 mm/min)	ASTM D638	%	14
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	6
Vicat Softening Point, 10N	ASTM D1525	°C	135
HDT (0.46 N/mm2)	ASTM D648	°C	73
Melting Point , DSC	ASTM D3417	°C	149
Density	ASTM D792	gr/cm3	0.91

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RG 3212 E

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Pressure pipes, hot & cold water system, drinking water pipes, pipes for electrical appliances

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	0.27
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	850
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	25
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	20
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	132
Ball indentation hardness	ISO 2039-1	MPa	45
HDT (0.46 N/mm2)	ASTM D648	°C	75
Melting Point , DSC	ASTM D3417	°C	145
Density	ASTM D792	gr/cm3	0.91

RG 3212 H

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

General extrusion processes, sheet, back coating

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	850
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	24
Elongation at Yield(50 mm/min)	ASTM D638	%	11
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	18
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	132
Ball indentation hardness	ISO 2039-1	MPa	80
HDT (0.46 N/mm2)	ASTM D648	°C	75
Melting Point , DSC	ASTM D3417	°C	145
Density	ASTM D792	gr/cm3	0.91

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RG 3212 XE



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Pressure pipes, hot & cold water system, drinking water pipes, pipes for electrical appliances

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	0.32
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	850
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	25
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	20
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	132
Ball indentation hardness	ISO 2039-1	MPa	45
HDT (0.46 N/mm2)	ASTM D648	°C	75
Melting Point , DSC	ASTM D3417	°C	145
Density	ASTM D792	gr/cm3	0.91

RG 3212 XXE

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Extrusion application, General Thermoforming

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	0.8
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	750
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	25
Elongation at Yield(50 mm/min)	ASTM D638	%	> 10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	> 100
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	27
Vicat Softening Point, 10N	ASTM D1525	°C	135
Ball indentation hardness	ISO 2039-1	MPa	45
HDT (0.46 N/mm2)	ASTM D648	°C	75
Melting Point , DSC	ASTM D3417	°C	145
Density	ASTM D792	gr/cm3	0.91

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RG 3225 MC



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Cast films (high slip & antiblock), laminating and packaging films

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8
Tear strength(Longitudinal/Transverse)	DIN 53455	MPa	37/35
Elongation at break(Longitu./Trans.)	DIN 53455	%	730/750
Flexural modulus (Longitu./Trans.)	DIN 53121	MPa	480/470
Dart drop impact strength F50	ASTM D1709	gr	450
Coefficient of sliding friction	DIN 53375	--	0.18
Melting Point , DSC	ASTM D3417	°C	140
Gloss(20°)	ISO 2813	%	120
Haze	ASTM D1003	%	1.6
Density	ASTM D792	gr/cm3	0.91

RG 3236 MC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Cast films (high slip & antiblock & antistatic), laminating and packaging films

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8
Tear strength(Longitudinal/Transverse)	DIN 53455	MPa	37/35
Elongation at break(Longitu./Trans.)	DIN 53455	%	730/750
Flexural modulus (Longitu./Trans.)	DIN 53121	MPa	480/470
Dart drop impact strength F50	ASTM D1709	gr	450
Coefficient of sliding friction	DIN 53375	--	0.18
Melting Point , DSC	ASTM D3417	°C	140
Gloss(20°)	ISO 2813	%	120
Haze	ASTM D1003	%	1.6
Density	ASTM D792	gr/cm3	0.91

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RG 3240 G



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Blow molding, high transparency housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	1
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1250
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	31
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	6
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	130
Ball indentation hardness	ISO 2039-1	MPa	56
HDT (0.46 N/mm2)	ASTM D648	°C	80
Melting Point , DSC	ASTM D3417	°C	150
Density	ASTM D792	gr/cm3	0.91

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RG 3240 H

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Blow molding, high transparency housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	2
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1250
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	31
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	6
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	130
Ball indentation hardness	ISO 2039-1	MPa	56
HDT (0.46 N/mm2)	ASTM D648	°C	80
Melting Point , DSC	ASTM D3417	°C	150
Density	ASTM D792	gr/cm3	0.91

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RG 3240 NC



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Injection stretch blow molding (ISBM), high transparency housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	11
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1100
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	28
Elongation at Yield(50 mm/min)	ASTM D638	%	12
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	6
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	130
Ball indentation hardness	ISO 2039-1	MPa	62
HDT (0.46 N/mm2)	ASTM D648	°C	70
Melting Point , DSC	ASTM D3417	°C	149
Density	ASTM D792	gr/cm3	0.91

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RG 3248 RC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

High transparency housewares, thin walled packaging

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	22
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1100
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	29
Elongation at Yield(50 mm/min)	ASTM D638	%	11
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	6
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.5
Vicat Softening Point, 10N	ASTM D1525	°C	130
Ball indentation hardness	ISO 2039-1	MPa	60
HDT (0.46 N/mm2)	ASTM D648	°C	70
Melting Point , DSC	ASTM D3417	°C	150
Density	ASTM D792	gr/cm3	0.91

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RG 3248 TC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Thin walled packaging with good transparency, high transparency housewares

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	48
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	1150
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	29
Elongation at Yield(50 mm/min)	ASTM D638	%	11
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	4.5
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.3
Vicat Softening Point, 10N	ASTM D1525	°C	130
Ball indentation hardness	ISO 2039-1	MPa	58
HDT (0.46 N/mm2)	ASTM D648	°C	70
Melting Point , DSC	ASTM D3417	°C	150
Density	ASTM D792	gr/cm3	0.91

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RG 3300 MC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Cast films, soft packaging and stationary films

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	700
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	23
Elongation at Yield(50 mm/min)	ASTM D638	%	12
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	9
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2
Vicat Softening Point, 10N	ASTM D1525	°C	120
Ball indentation hardness	ISO 2039-1	MPa	40
HDT (0.46 N/mm2)	ASTM D648	°C	59
Melting Point , DSC	ASTM D3417	°C	139
Density	ASTM D792	gr/cm3	0.91

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RG 3325 MC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Cast films (high slip & antiblock), soft packaging and stationary films

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	8
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	700
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	23
Elongation at Yield(50 mm/min)	ASTM D638	%	12
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	9
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	2
Vicat Softening Point, 10N	ASTM D1525	°C	120
Ball indentation hardness	ISO 2039-1	MPa	40
HDT (0.46 N/mm2)	ASTM D648	°C	59
Melting Point , DSC	ASTM D3417	°C	139
Density	ASTM D792	gr/cm3	0.91

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RG 3340 NC

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

High transparent and flexible housewares, containers with snap fit lids

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	11
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	870
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	24
Elongation at Yield(50 mm/min)	ASTM D638	%	11
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	7.3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1.2
Vicat Softening Point, 10N	ASTM D1525	°C	120
Ball indentation hardness	ISO 2039-1	MPa	41
HDT (0.46 N/mm2)	ASTM D648	°C	66
Melting Point , DSC	ASTM D3417	°C	144
Density	ASTM D792	gr/cm3	0.91

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RG 3348 SC



Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

High transparent and flexible housewares, low warpage thin walled parts, containers with snap fit lids

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	30
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	820
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	22
Elongation at Yield(50 mm/min)	ASTM D638	%	10
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	6.3
Notched Charpy Impact at -30°	ISO 179/ 1eA	KJ/m2	1
Vicat Softening Point, 10N	ASTM D1525	°C	120
Ball indentation hardness	ISO 2039-1	MPa	41
HDT (0.46 N/mm2)	ASTM D648	°C	60
Melting Point , DSC	ASTM D3417	°C	144
Density	ASTM D792	gr/cm3	0.91

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RG 3420 L

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Heat seal layer of general BOPP films

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ASTM D1238/L	gr/10min	6
Tensile Modulus of Elasticity (1mm/min)	ASTM D638	MPa	600
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	20
Elongation at Yield(50 mm/min)	ASTM D638	%	15
Notched Charpy Impact at 23°	ISO 179/ 1eA	KJ/m2	15
Vicat Softening Point, 10N	ASTM D1525	°C	120
Rockwell hardness	ASTM D785	R-Scale	60
Melting Point , DSC	ASTM D3417	°C	136
Density	ASTM D792	gr/cm3	0.91

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RG 3420 M

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Metallized films, coextruded sealing layers with low sealing temperature (SIT) property

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ISO 1133	gr/10min	7
Tensile Strength at Yield	ASTM D638	MPa	22
Elongation at break	ASTM D638	%	>450
Flexural modulus	ASTM D790	MPa	660
Izod Impact Strength, notched at 23°	ASTM D256	J/m	15
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	130
Gloss (20°)	ASTM D523	%	125
Haze	ASTM D3763	%	0.3
Density	ISO 1183	gr/cm3	0.91

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RG 3520 L

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Packing:

PP bags of 25 kgs, 50 bags on a pallet



Application:

Metallized films, coextruded sealing layers with low sealing temperature (SIT) property

Property	Test Method	Unit	Value
MFR (230° C/ 2.16 Kg)	ISO 1133	gr/10min	6
Tensile Strength at Yield	ASTM D638	MPa	22
Elongation at break	ASTM D638	%	>450
Flexural modulus	ASTM D790	Mpa	660
Izod Impact Strength , notched at 23°	ASTM D256	J/m	15
HDT (0.46 N/mm2)	ASTM D648	°C	85
Melting Point , DSC	ASTM D3417	°C	130
Gloss(20°)	ASTM D523	%	125
Haze	ASTM D3763	%	0.3
Density	ISO 1183	gr/cm3	0.91

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