

Product Data and Technical Information



POLYMER TYPE: Polypropylene Random Copolymer Granule

GRADE NAME: RG 3212 E

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

PRODUCT FEATURES: Random copolymer for extrusion applications with high melt stability

PROCESSING METHOD: Extrusion

Property	Test Method	Unit	Value
MFR (230 °C/ 2.16 kg)	ASTM D1238/L	g/10min	0.22 – 0.28
Flexural Modulus	ASTM D790	MPa	880
Tensile Modulus of Elasticity (1 mm/min)	ASTM D638	MPa	850
Tensile Strength at Yield (50 mm/min)	ASTM D638	MPa	25
Tensile Elongation at Yield (50 mm/min)	ASTM D638	%	10
Tensile Strength at Break (50 mm/min)	ASTM D638	MPa	> 10
Tensile Elongation at Break (50 mm/min)	ASTM D638	%	> 50
Notched Charpy Impact at 23°C	ISO 179/ 1eA	kJ/m ²	20
Notched Charpy Impact at -30°C	ISO 179/ 1eA	kJ/m ²	2.5
Vicat Softening Point, 10N	ASTM D1525	°C	132
Ball indentation hardness	ISO 2039-1	MPa	45
Rockwell Hardness	ASTM D785	R Scale	70
HDT (0.46 N/mm ²)	ASTM D648	°C	75
Brittleness Temperature	ASTM D746	°C	≤-5
Melting Point, DSC	ASTM D3417	°C	145
OIT (200°C)	ASTM D3895	min	> 30
Density	ASTM D792	g/cm ³	0.91

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In view of the many factors that may affect processing and application, these data do not relieve the receiver of this information from the responsibility of carrying out their own tests and experiments; neither do they imply and legally binding assurance of certain properties or of suitability for a specific purpose of the products made with or on the basis of the information in this publication."

Regal Petrochemical & Industrial Complex