Borealis Beta-PPR™ RA7050-GN Polypropylene-Random-Copolymer for Pressure Pipe Systems

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Extrusion Grade

Material Notes:

Beta-PPR RA7050-GN is a PP-RCT, a Polypropylene-Random-Copolymer with an enhanced Crystalline structure brought about by a special ß-nucleation and with an improved Temperature resistance. Proof of the excellent performance characteristics of Beta-PPR RA7050-GN is, for example, a categorized required strength (CRS) of 5 MPa at 70°C and 50 years in comparison to a value of 3.21 MPa for standard PP-R. The color of Beta-PPR RA7050 is steel grey similar to RAL7042.In general Beta-PPR RA7050-GN is intended to be used in applications for plumbing and heating, such as in-house hot and cold water pipes and fittings, floor and wall heating systems and radiator connections.Information provided by the Manufacturer.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Borealis-Beta-PPR-RA7050-GN-Polypropylene-Random-Copolymer-for-Pressure-Pipe-Systems.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in³	ISO 1183
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 230 °C	0.30 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.00 MPa	3626 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	At 50 mm/min; ISO 527-2
Modulus of Elasticity	0.900 GPa	131 ksi	1 mm/min; ISO 527
Charpy Impact, Notched	4.00 J/cm²	19.0 ft-lb/in²	ISO 179/1eA
	0.200 J/cm² @Temperature -20.0 °C	0.952 ft-lb/in² @Temperature -4.00 °F	ISO 179/1eA
	0.400 J/cm² @Temperature 0.000 °C	1.90 ft-lb/in² @Temperature 32.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	1.50 µm/m-°C @Temperature 0.000 - 70.0 °C	0.833 µin/in-°F @Temperature 32.0 - 158 °F	DIN 53752
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft²-°F	DIN 52612 Part 1

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 6.0 ohm	>= 6.0 ohm	DIN 53482/VDE 0303 Part 2

Processing Properties	Metric	English	Comments
Front Barrel Temperature	200 - 220 °C	392 - 428 °F	
Die Temperature	210 - 220 °C	410 - 428 °F	
Melt Temperature	210 - 230 °C	410 - 446 °F	
Head Temperature	210 - 220 °C	410 - 428 °F	

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