

Borealis Beta (β)-PP™ BE60-7032 Grey Polypropylene Homopolymer for Pressure Pipes, Fittings and Sheets

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

Material Notes:

Beta(β)-PP BE60-7032 is a high molecular weight, low melt flow rate polypropylene homopolymer with fine grained β-modification crystalline structure leading to excellent impact strength even at low temperatures, increased hydrostatic strength and improved chemical resistance. Beta(β)-PP BE60-7032 is recommended for pressure pipes and fittings, chemical engineering components, extruded and compression molded sheets, filter plates and solid rods. The material is colored grey based on RAL 7032. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Beta-PP-BE60-7032-Grey-Polypropylene-Homopolymer-for-Pressure-Pipes-Fittings-and-Sheets.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Melt Flow	0.30 g/10 min	0.30 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	0.50 g/10 min	0.50 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.000 MPa	4351.1 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	At 50 mm/min; ISO 527-2
Modulus of Elasticity	1.30 GPa	189 ksi	ISO 527
Charpy Impact, Notched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/1eA
	0.500 J/cm ² @Temperature -20.0 °C	2.38 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	HDT; ISO 75 B
Vicat Softening Point	91.0 °C	196 °F	B (50 N); ISO 306

Processing Properties	Metric	English	Comments
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Front Barrel Temperature Processing Properties	190 - 230 °C Metric	374 - 446 °F English	Comments
Die Temperature	200 - 230 °C	392 - 446 °F	
Melt Temperature	200 - 230 °C	392 - 446 °F	
Head Temperature	200 - 230 °C	392 - 446 °F	

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