

Borealis BE50-7032 Polypropylene Homopolymer for Non-Pressure pipes and extruded sheets

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

Material Notes:

BE50-7032 is a high molecular weight, low melt flow rate polypropylene homopolymer characterized by high stiffness, high heat distortion temperature and high resistance to thermal aging. The material is colored grey based on RAL 7032. Applications: BE50-7032 is recommended for non-pressure pipes and fittings, extruder sheets, solid rods, filter plates and other extrusion applications, industrial, non-pressure pipe systems, sheets and profiles. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BE50-7032-Polypropylene-Homopolymer-for-Non-Pressure-pipes-and-extruded-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	
	0.60 g/10 min	0.60 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	36.0 MPa	5220 psi	50mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	50mm/min; ISO 527-2
Tensile Modulus	1.65 GPa	239 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C	203 °F	B50; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	190 - 230 °C	374 - 446 °F	cylinder

Processing Properties	Metric	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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