

Borealis BEC5012 Polypropylene Block Copolymer for Non-Pressure Pipes

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

BEC5012 is a high molecular weight, low flow rate polypropylene block copolymer with very high impact strength. Applications: BEC5012 is recommended for non-pressure pipes and fittings, structured wall pipes and profiles and sheets. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BEC5012-Polypropylene-Block-Copolymer-for-Non-Pressure-Pipes.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 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	28.0 MPa	4060 psi	50mm/min; ISO 527-2
Elongation at Yield	12 %	12 %	50mm/min; ISO 527-2
Tensile Modulus	1.30 GPa	189 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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