

Borealis BB412E Polypropylene Block Copolymer for extrusion and injection

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

Material Notes:

BB412E is a natural, medium molecular weight, medium melt flow rate polypropylene block copolymer with an optimal mechanical properties balance resulting in high stiffness and very good impact strength both at room temperature and at low temperatures. The material is colored grey based on RAL 7032. Applications: BB412E is recommended for pipe extrusion and injection molding of fittings in the application field of: waste water discharge, cable conduit pipes, sewerage, corrugated pipes, and corrugated boards. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BB412E-Polypropylene-Block-Copolymer-for-extrusion-and-injection.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Melt Flow	1.3 g/10 min	1.3 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	2.5 g/10 min	2.5 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	8.0 %	8.0 %	50mm/min; ISO 527
Tensile Modulus	1.30 GPa	189 ksi	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	
	2.50 J/cm ²	11.9 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	
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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