

Borealis BorECO™ BA415E Polypropylene Block Copolymer for Non-Pressure Pipes

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

Material Notes:

BorECO™ BA415E is a high molecular weight, low melt flow rate polypropylene block copolymer with high stiffness and impact strength.

This material has been designed for improved processability and higher output, especially in the production of corrugated pipes.

Applications: BorECO™ BA415E is recommended for corrugated and solid wall gravity pipes, profiles, fittings and chambers in the application field of: underground drainage, sewerage, soil, and waste. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BorECO-BA415E-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	0.50 g/10 min @Load 2.16 kg, Temperature 230 °C	0.50 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.0 MPa	4210 psi	50mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	50mm/min; ISO 527-2
Flexural Modulus	1.50 GPa	218 ksi	1mm/min; ISO 178
Charpy Impact, Notched	0.600 J/cm ² @Temperature -20.0 °C	2.86 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	6.00 J/cm ² @Temperature 23.0 °C	28.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	200 - 220 °C	392 - 428 °F	cylinder
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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