

Borealis BF335SA Polypropylene Copolymer

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

Material Notes:

BF335SA is a polypropylene copolymer intended for injection molding. This material has a very high impact strength while maintaining good stiffness, gives a good surface quality and is easy to process. Applications: BF335SA has been developed especially for applications like vacuum cleaners. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BF335SA-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.013 - 0.014 cm/cm	0.013 - 0.014 in/in	Borealis method
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 230 °C	20 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	89	89	ISO 2309-2
Tensile Strength, Yield	25.0 MPa	3630 psi	50mm/min; ISO 527-2
Elongation at Yield	6.0 %	6.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.30 GPa	189 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.350 J/cm ² @Temperature -20.0 °C	1.67 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	0.750 J/cm ² @Temperature 23.0 °C	3.57 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 - 80.0 °C	104 - 176 °F	
Middle Barrel Temperature	220 - 260 °C	428 - 500 °F	mass temperature
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	

Processing Properties	Metric	English	Comments
Hold Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

Descriptive Properties	Value	Comments
Back Pressure	low to medium	
Screw Speed	low to medium	

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