

Borealis Xmod™ BG055AI High Stiffness Polypropylene for Injection Molding Applications

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

Material Notes:

Xmod BG055AI is a high melt flow polypropylene with increased crystallinity, intended for injection molding. Xmod BG055AI is a very easy flowing material with a good balance between impact strength and stiffness. The material provides high surface quality. Xmod BG055AI is especially designed for air duct systems, climate control units, back-injection molding, and parts requiring high aesthetic surface finish. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Xmod-BG055AI-High-Stiffness-Polypropylene-for-Injection-Molding-Applications.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ISO 1183
Melt Flow	22 g/10 min	22 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	96 g/10 min	96 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	85.0 MPa	12300 psi	H 385/30; ISO 2039
Tensile Strength, Yield	35.0 MPa	5080 psi	At 50 mm/min; ISO 527-2
Tensile Modulus	2.00 GPa	290 ksi	At 1 mm/min; ISO 527-2
Flexural Modulus	1.85 GPa	268 ksi	At 2 mm/min; ISO 178
Charpy Impact Unnotched	10.2 J/cm ²	48.5 ft-lb/in ²	ISO 179/1eU
	3.50 J/cm ² @Temperature -20.0 °C	16.7 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	0.150 J/cm ² @Temperature -20.0 °C	0.714 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	108 °C	226 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
Heat Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	ISO 15-2
Vicat Softening Point	95.0 °C	203 °F	B (50N); ISO 306
	156 °C	313 °F	A (10N); ISO 306
Shrinkage	1.5 % @Thickness 2.00 mm	1.5 % @Thickness 0.0787 in	disk; Borealis Method

Optical Properties	Metric	English	Comments
Gloss	75 %	75 %	20°; DIN 67530
	95 %	95 %	60°; DIN 67530

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 260 °C	410 - 500 °F	Polymer Mass Temp
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	

Descriptive Properties	Value	Comments
Emissions, ug C/g	30	VDA 277
Fogging, mg	1.1	At 100°C/ 16 hours

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