

Borealis Xmod™ BE677AI High Crystalline Polypropylene Copolymer

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

Material Notes:

Xmod BE677AI is a UV-stabilized HCPP intended for injection molding of automotive interior and appliance parts. Xmod BE677AI has an excellent balance between impact strength and stiffness as well as good surface quality. Xmod BE677AI is especially designed for pillar trims, door panels and pockets, central consoles, internal and external parts of vacuum cleaners, accessory parts for vacuum cleaners like nozzles extensions, and parts for refrigerators. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Xmod-BE677AI-High-Crystalline-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 230 °C	14 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	62.0 MPa	8990 psi	H 385/30; ISO 2039
Tensile Strength, Yield	26.0 MPa	3770 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	At 1 mm/min; ISO 527-2
Flexural Modulus	1.50 GPa	218 ksi	ISO 178
Charpy Impact Unnotched	11.0 J/cm ²	52.4 ft-lb/in ²	ISO 179/1eU
	6.20 J/cm ² @Temperature -20.0 °C	29.5 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
	0.450 J/cm ² @Temperature -20.0 °C	2.14 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °F	ISO 75-2

Vicat Softening Point Thermal Properties	72.0 °C Metric	162 °F English	B (50N): ISO 306 Comments
	150 °C	302 °F	A (10N); ISO 306
Shrinkage	1.5 %	1.5 %	Borealis Method

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	1.4	At 100°C/ 16 hours

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