

Borealis Xmod™ PC75 High Crystalline Polypropylene Copolymer

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

Material Notes:

Xmod PC75 is a HCPP intended for injection molding of automotive interior parts. Xmod PC75 is a very easy-flowing material combined with a good balance between impact strength and stiffness. The material gives a good surface quality. Xmod PC75 has been designed for pillar trims, door panels and pockets, and central consoles. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Xmod-PC75-High-Crystalline-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ISO 1183
Melt Flow	96 g/10 min @Load 5.00 kg, Temperature 230 °C	96 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	66.0 MPa	9570 psi	H 385/30; ISO 2039
Tensile Strength, Yield	26.0 MPa	3770 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	6.0 %	6.0 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	At 1 mm/min; ISO 527-2
Flexural Modulus	1.40 GPa	203 ksi	At 2 mm/min; ISO 178
Charpy Impact Unnotched	6.70 J/cm ² @Temperature -20.0 °C	31.9 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	0.320 J/cm ² @Temperature -20.0 °C	1.52 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	57.0 °C	135 °F	ISO 75-2
Vicat Softening Point	75.0 °C	167 °F	B (50N); ISO 306
	150 °C	302 °F	A (10N); ISO 306

Shrinkage Thermal Properties	1.6 % Metric	1.6 % English	Rhealix Method Comments
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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	37	VDA 277
Fogging, mg	0.9	At 100°C/ 16 hours

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