

Borealis Xmod™ MC55 High Crystalline Polypropylene Copolymer

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

Material Notes:

Xmod MC55 is a HCPP intended for injection molding of automotive interior parts. Xmod MC55 has an excellent balance between impact strength and stiffness as well as good surface quality. Xmod MC55 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-MC55-High-Crystalline-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ISO 1183
Melt Flow	13 g/10 min	13 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	57 g/10 min	57 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	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	7.0 %	7.0 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.60 GPa	232 ksi	At 1 mm/min; ISO 527-2
Flexural Modulus	1.55 GPa	225 ksi	At 5 mm/min; ISO 178
Charpy Impact Unnotched	5.10 J/cm ²	24.3 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
	0.360 J/cm ²	1.71 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °F	ISO 75-2

Thermal Properties	Metric	English	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	

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