Borealis Xmod™ K65G2 20% Glass Fiber Reinforced Polypropylene Compound

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Glass Fiber Filler

Material Notes:

Xmod K65G2 is a 20% glass fiber reinforced grade intended for injection molding. Xmod K65G2 has been developed especially for the car industry, to be used UTB parts. Xmod K65G2 offers good balance in stiffness/impact strength.Xmod K65G2 has been designed for automotive UTB parts.Information provided by the Manufacturer.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Borealis-Xmod-K65G2-20-Glass-Fiber-Reinforced-Polypropylene-Compound.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in³	ISO 1183
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133
	34 g/10 min @Load 5.00 kg, Temperature 230 °C	34 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	124 MPa	18000 psi	H 385/30; ISO 2039
Tensile Strength, Yield	86.0 MPa	12500 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	3.0 %	3.0 %	At 50 mm/min; ISO 527-2
Flexural Modulus	4.40 GPa	638 ksi	At 2 mm/min; ISO 178
Charpy Impact Unnotched	4.10 J/cm²	19.5 ft-lb/in²	ISO 179/1eU
	2.50 J/cm² @Temperature -20.0 °C	11.9 ft-lb/in² @Temperature -4.00 °F	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm²	3.33 ft-lb/in²	ISO 179/1eA
	0.570 J/cm² @Temperature -20.0 °C	2.71 ft-lb/in² @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
	165 °C	329 °F	A (10N); ISO 306

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

Descriptive Properties	Value	Comments
Fogging, mg	2.3	At 100°C/ 16 hours

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