

Polykemi AB SCANMID 6 B12^ F30 AS Nylon 6, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-SCANMID-6-B12-F30-AS-Nylon-6-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Filler Content	30 %	30 %	±2%; Polykemi
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	With Flow; ISO 2577
	0.0090 cm/cm	0.0090 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 127 MPa	<= 18400 psi	ISO/R527
Elongation at Break	10 %	10 %	ISO/R527
Elongation at Yield	9.5 %	9.5 %	ISO/R527
Flexural Strength	<= 190 MPa	<= 27600 psi	ISO 178
Flexural Modulus	7.10 GPa @Temperature 23.0 °C	1030 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	ISO 179
Charpy Impact, Notched	0.900 J/cm ² @Temperature -20.0 °C	4.28 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	1.40 J/cm ² @Temperature 23.0 °C	6.66 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	213 °C	415 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa	198 °C	388 °F	120°C/h; ISO 75/1

(264 psi) Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	650 °C	1200 °F	IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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