

Polykemi AB SCANMID 6 B12^ QF2010 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-QF2010-Nylon-6-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in³	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
Hardness, Shore D	80 @Time 15.0 sec	80 @Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	<= 170 MPa	<= 24700 psi	ISO/R527
Elongation at Break	3.0 %	3.0 %	ISO/R527
Flexural Strength	<= 240 MPa	<= 34800 psi	ISO 178
Flexural Modulus	8.80 GPa @Temperature 23.0 °C	1280 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.800 J/cm² @Temperature -20.0 °C	3.81 ft-lb/in² @Temperature -4.00 °F	ISO 179
	1.00 J/cm² @Temperature 23.0 °C	4.76 ft-lb/in² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	120°C/h; ISO 75/1
Vicat Softening Point	>= 200 °C @Load 5.001 kg	>= 392 °F @Load 11.03 lb	50°C/h; ISO 306

Thermal Properties	HB Metric	HB English	Comments
	@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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