

Polykemi AB SCANTEC PC S60R GF30 Polycarbonate, Glass-Fiber Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-SCANTEC-PC-S60R-GF30-Polycarbonate-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Filler Content	30 %	30 %	±2%; Polykemi
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	With Flow; ISO 2577
	0.0040 cm/cm	0.0040 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 100 MPa	<= 14500 psi	ISO/R527
Elongation at Break	2.0 %	2.0 %	ISO/R527
Flexural Strength	<= 165 MPa	<= 23900 psi	ISO 178
Flexural Modulus	7.00 GPa @Temperature 23.0 °C	1020 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.600 J/cm ² @Temperature -20.0 °C	2.86 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	0.800 J/cm ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	120°C/h; ISO 75/1
Vicat Softening Point	147 °C @Load 5.001 kg	297 °F @Load 11.03 lb	50°C/h; ISO 306
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	

Thermal Properties	^{V-1} Metric	^{V-1} English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	960 °C	1760 °F	IEC 695-2-1
	@Thickness 3.20 mm	@Thickness 0.126 in	

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