

Polykemi AB SCANTEC PC S75R GF10 Polycarbonate, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% 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-S75R-GF10-Polycarbonate-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Filler Content	10 %	10 %	±2%; Polykemi
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	With Flow; ISO 2577
	0.0060 cm/cm	0.0060 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 75.0 MPa	<= 10900 psi	ISO/R527
Elongation at Break	7.0 %	7.0 %	ISO/R527
Flexural Strength	<= 110 MPa	<= 16000 psi	ISO 178
Flexural Modulus	3.80 GPa @Temperature 23.0 °C	551 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.700 J/cm ² @Temperature -20.0 °C	3.33 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	1.00 J/cm ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °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	145 °C @Load 5.001 kg	293 °F @Load 11.03 lb	50°C/h; ISO 306
	150 °C @Load 1.00 kg	302 °F @Load 2.21 lb	50°C/h; ISO 306

Thermal Properties	V-2 Metric	V-2 English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	960 °C	1760 °F	IEC 695-2-1
	@Thickness 3.20 mm	@Thickness 0.126 in	

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