

Polykemi AB SCANTEC PC S75R GF20 Polycarbonate, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% 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-GF20-Polycarbonate-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Filler Content	20 %	20 %	±2%; Polykemi
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	With Flow; ISO 2577
	0.0050 cm/cm	0.0050 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 80.0 MPa	<= 11600 psi	ISO/R527
Elongation at Break	2.0 %	2.0 %	ISO/R527
Flexural Strength	<= 145 MPa	<= 21000 psi	ISO 178
Flexural Modulus	5.50 GPa	798 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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	147 °C	297 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Thermal Properties	960 °C Metric	1760 °F English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	

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