

Plastcom SLOVALEN PH 49 GF 30 003/3M Polypropylene reinforced with glass fiber, heat stabilized

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% Glass Fiber Filler

Material Notes:

Modified homopolymer PP for injection molding, reinforced with 30% glass fiber, heat stabilized. Delivered in black color. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVALEN-PH-49-GF-30-0033M-Polypropylene-reinforced-with-glass-fiber-heat-stabilized.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	STN EN ISO 1183-1
Filler Content	30 %	30 %	
Linear Mold Shrinkage	0.0065 cm/cm	0.0065 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0128 cm/cm	0.0128 in/in	STN EN ISO 294-4
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	7.20 GPa	1040 ksi	STN EN ISO 527-2
Flexural Strength	135 MPa	19600 psi	STN EN ISO 178
Flexural Modulus	5.70 GPa	827 ksi	STN EN ISO 178
Charpy Impact Unnotched	5.20 J/cm ² @Temperature -20.0 °C	24.7 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.900 J/cm ² @Temperature -20.0 °C	4.28 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	155 °C	311 °F	STN EN ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 250 °C	392 - 482 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

Descriptive Properties	Value	Comments
Color	Black	

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