

Plastcom SLOVALEN PH 49 GF 50 Polypropylene Homopolymer, 50% Glass Fiber

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 50% Glass Fiber Filler

Material Notes:

Features Modified homopolymer PP for injection moulding, chemically reinforced with 50% glass fiber, contains the modifier of mechanical properties. Increased strength in comparison with unfilled PP. Applied in all industry branches. Increased strength, toughness, modulus in tension due to the modification. Delivered in natural and in the full RAL color scale. Application: Injection Moulding 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-50-Polypropylene-Homopolymer-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0065 cm/cm	0.0065 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0128 cm/cm	0.0128 in/in	STN 64 0808
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 230 °C	4.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	6.85 GPa	994 ksi	STN EN ISO 527-2
Flexural Strength	115 MPa	16700 psi	STN EN ISO 178
Flexural Modulus	5.50 GPa	798 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	1.10 J/cm ² @Temperature -20.0 °C	5.23 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	1.30 J/cm ² @Temperature 23.0 °C	6.19 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	DSC; STN EN ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	STN EN ISO 75/A
Vicat Softening Point	155 °C	311 °F	B; 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	
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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