

Plastcom SLOVALEN PC 51 GF 10 PP, 10% glass fibre

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 10% Glass Fiber Filler

Material Notes:

Features Modified copolymer PP for injection moulding, chemically reinforced with 10% glass fibre, with high strength, rigidity and toughness, adapted thermal properties, decreased shrinkage. Suitable for automotive, engineering, electrical and consumer goods industry. With the increasing content of GF also the toughness, tensile and bending strength, modulus in tension and bending increase and the shrinkage decreases as well as the heat application increases up to 150°C. Additional drying of the material is not necessary. Delivered in natural mode and in the full RAL colour scale. Packaging, transport, stocking The product is packed in hermetically closed thick-walled 25 kg PE bags, on a 1.000 kg palette coated in a stretch foil, in big bags with a thick PE foil fixed on a 1.000 kg palette, in paper octabins with a thick PE foil fixed on a 1.000 kg palette or in other packaging according to customer requirements. The transport is provided in closed-up vehicles where the material is protected against movement and mechanical damage. The product requires stocking in closed-up, dry places protected against sun and thermal radiation. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVALEN-PC-51-GF-10-PP-10-glass-fibre.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Linear Mold Shrinkage	0.0195 cm/cm	0.0195 in/in	
Linear Mold Shrinkage, Transverse	0.0185 cm/cm	0.0185 in/in	
Melt Flow	5.0 g/10 min @Load 0.325 kg, Temperature 270 °C	5.0 g/10 min @Load 0.716 lb, Temperature 518 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	
Elongation at Break	4.0 %	4.0 %	
Tensile Modulus	3.10 GPa	450 ksi	
Flexural Strength	55.0 MPa	7980 psi	
Flexural Modulus	2.00 GPa	290 ksi	
Charpy Impact Unnotched	2.50 J/cm ² @Temperature -20.0 °C	11.9 ft-lb/in ² @Temperature -4.00 °F	
	4.80 J/cm ² @Temperature 23.0 °C	22.8 ft-lb/in ² @Temperature 73.4 °F	
	0.100 J/cm ²	0.476 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature -20.0 °C	English @ Temperature -4.00 °F	Comments
	1.50 J/cm ²	7.14 ft-lb/in ²	
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	
Vicat Softening Point	130 °C	266 °F	B

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 250 °C	392 - 482 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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