

Plastcom SLOVALEN PH 99 GB 30 LS PP, 30% glass beads, mod. of mech. properties

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Glass Bead Filled

Material Notes:

Features Modified homopolymer PP for injection moulding, chemically reinforced with 30% glass beads, 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 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-PH-99-GB-30-LS-PP-30-glass-beads-mod-of-mech-properties.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	
Linear Mold Shrinkage	0.0157 cm/cm	0.0157 in/in	
Linear Mold Shrinkage, Transverse	0.0168 cm/cm	0.0168 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	36.0 MPa	5220 psi	
Elongation at Break	8.0 %	8.0 %	
Tensile Modulus	3.25 GPa	471 ksi	
Flexural Strength	45.0 MPa	6530 psi	
Flexural Modulus	3.10 GPa	450 ksi	
Charpy Impact Unnotched	3.40 J/cm ² @Temperature -20.0 °C	16.2 ft-lb/in ² @Temperature -4.00 °F	
	4.10 J/cm ² @Temperature 23.0 °C	19.5 ft-lb/in ² @Temperature 73.4 °F	
	0.400 J/cm ²	1.90 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature -20.0 °C	English @ Temperature -4.00 °F	Comments
	0.600 J/cm ²	2.86 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)	76.0 °C	169 °F	
Vicat Softening Point	101 °C	214 °F	B

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	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.050 %	0.050 %	
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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