

Plastcom SLOVALEN PC 69 GF 35 FRT 4 Polypropylene Copolymer, 35% Glass Fiber, Halogen Free and Phosphor Free Flame Retardant

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene with 40% Glass Fiber Filler , Polypropylene, Flame Retardant

Material Notes:

FeaturesModified copolymer PP for injection moulding, chemically reinforced with 35% glass fiber, contains the modifier of mechanical properties and non halogen and free phosphor flame retardant. 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-PC-69-GF-35-FRT-4-Polypropylene-Copolymer-35-Glass-Fiber-Halogen-Free-and-Phosphor-Free-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0145 cm/cm	0.0145 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0157 cm/cm	0.0157 in/in	STN 64 0808
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	STN EN ISO 527-2
Elongation at Break	3.0 %	3.0 %	STN EN ISO 527-2
Tensile Modulus	5.80 GPa	841 ksi	STN EN ISO 527-2
Flexural Strength	120 MPa	17400 psi	STN EN ISO 178
Flexural Modulus	5.70 GPa	827 ksi	STN EN ISO 178
Charpy Impact Unnotched	3.80 J/cm ² @Temperature -20.0 °C	18.1 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	4.40 J/cm ² @Temperature 23.0 °C	20.9 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.400 J/cm ² @Temperature -20.0 °C	1.90 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.700 J/cm ²	3.33 ft-lb/in ²	STN EN ISO 179

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	DSC; STN EN ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	152 °C	306 °F	STN EN ISO 75/A
Vicat Softening Point	189 °C	372 °F	B; STN EN ISO 306
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Glow Wire Test	960 °C	1760 °F	3mm; STN IEC 60695-2-10

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	0.20 %	0.20 %	STN EN ISO 960
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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