

Plastcom SLOVALEN PH 51 C 40 Polypropylene Homopolymer and Copolymer, 40% Micronized Talc

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene with 40% Talc Filler

Material Notes:

Features Modified homopolymer and copolymer PP for injection moulding with the content of 40% micronized, chemically modified talc. Increased strength, rigidity and thermal application up to 130°C. Decreased shrinkage. Packing material, garden flower-pots, toys, dowels, clamps, hinge, office chairs, holders, covers of motors, chassis, protection trims in the automotive industry, electroinstallation boxes in the electrical industry. Fulfills the glow wire 750°C. Delivered 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-51-C-40-Polypropylene-Homopolymer-and-Copolymer-40-Micronized-Talc.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0127 cm/cm	0.0127 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0115 cm/cm	0.0115 in/in	STN 64 0808
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	STN EN ISO 527-2
Elongation at Break	4.0 %	4.0 %	STN EN ISO 527-2
Tensile Modulus	2.20 GPa	319 ksi	STN EN ISO 527-2
Flexural Strength	35.0 MPa	5080 psi	STN EN ISO 178
Flexural Modulus	2.30 GPa	334 ksi	STN EN ISO 178
Charpy Impact Unnotched	1.20 J/cm ² @Temperature -20.0 °C	5.71 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	3.20 J/cm ² @Temperature 23.0 °C	15.2 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.100 J/cm ² @Temperature -20.0 °C	0.476 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.300 J/cm ²	1.43 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	STN EN ISO 179 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	150 °C	302 °F	DSC; STN EN ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	STN EN ISO 75/A
Vicat Softening Point	155 °C	311 °F	B; STN EN ISO 306
Flammability, UL94	HB	HB	
Glow Wire Test	750 °C	1380 °F	STN IEC 60695-2-10

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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