

Plastcom PLASTALEN® PH 51 T 40 Polypropylene reinforced with mineral filler

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced

Material Notes:

Modified homopolymer PP for injection molding with the content of 40% mineral filler. General application. Delivered in black color. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTALEN-PH-51-T-40-Polypropylene-reinforced-with-mineral-filler.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	STN EN ISO 1183-1
Filler Content	40 %	40 %	
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	28.0 MPa	4060 psi	STN EN ISO 527-2
Elongation at Break	4.0 %	4.0 %	STN EN ISO 527-2
Tensile Modulus	2.95 GPa	428 ksi	STN EN ISO 527-2
Flexural Strength	48.0 MPa	6960 psi	STN EN ISO 178
Flexural Modulus	2.85 GPa	413 ksi	STN EN ISO 178
Charpy Impact Unnotched	1.40 J/cm ² @Temperature -20.0 °C	6.66 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	2.20 J/cm ² @Temperature 23.0 °C	10.5 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.150 J/cm ² @Temperature -20.0 °C	0.714 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.200 J/cm ² @Temperature 23.0 °C	0.952 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	STN EN 11357-1

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 250 °C	392 - 482 °F	
Mold Temperature	40.0 - 70.0 °C	104 - 158 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

Descriptive Properties	Value	Comments
Color	Black	

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