

Plastcom PLASTALEN® PQ 83 T 30 Polypropylene reinforced with mineral filler

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

Material Notes:

Impact modified PP for injection molding with the content of 30 % mineral filler. Application in automotive industry. Delivered in black grade. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTALEN-PQ-83-T-30-Polypropylene-reinforced-with-mineral-filler.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	STN EN ISO 1183-1
Filler Content	30 %	30 %	
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	STN EN ISO 294-4
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	13.0 MPa	1890 psi	STN EN ISO 527-2
Elongation at Break	3.0 %	3.0 %	STN EN ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	STN EN ISO 527-2
Flexural Strength	20.0 MPa	2900 psi	STN EN ISO 178
Flexural Modulus	1.25 GPa	181 ksi	STN EN ISO 178
Charpy Impact Unnotched	2.20 J/cm ² @Temperature -20.0 °C	10.5 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	4.00 J/cm ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.350 J/cm ² @Temperature -20.0 °C	1.67 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	1.80 J/cm ² @Temperature 23.0 °C	8.57 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
Deflection Temperature at 1.8 MPa (264 psi)	72.0 °C	162 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	117 °C	243 °F	STN EN ISO 306
Flammability, UL94	HB	HB	

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	
Moisture Content	0.10 %	0.10 %	STN EN ISO 3344
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

Descriptive Properties	Value	Comments
Color	Black	

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