

Plastcom PLASTALEN® PQ 82 N 003/1M Polypropylene with improved impact strength

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Impact Modified; Molded/Extruded

Material Notes:

PP copolymer regranelate for injection molding, impact modified. General use in all industry branches. Delivered in natural mode and in the full RAL color scale. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTALEN-PQ-82-N-0031M-Polypropylene-with-improved-impact-strength.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	STN EN ISO 1183-1
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	25.0 MPa	3630 psi	STN EN ISO 527-2
Elongation at Break	45 %	45 %	STN EN ISO 527-2
Tensile Modulus	1.65 GPa	239 ksi	STN EN ISO 527-2
Flexural Strength	19.0 MPa	2760 psi	STN EN ISO 178
Flexural Modulus	1.15 GPa	167 ksi	STN EN ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	STN EN ISO 179
	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	STN EN ISO 179
Charpy Impact, Notched	0.500 J/cm ² @Temperature -20.0 °C	2.38 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	1.40 J/cm ² @Temperature 23.0 °C	6.66 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	160 °C Metric	320 °F English	STN EN 11357-1 Comments
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	115 °C	239 °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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