

Plastcom PLASTALEN® PQ 81 N 003 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-81-N-003-Polypropylene-with-improved-impact-strength.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	STN EN ISO 1183-1
Linear Mold Shrinkage	0.022 cm/cm	0.022 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0225 cm/cm	0.0225 in/in	STN EN ISO 294-4
Melt Flow	20 - 30 g/10 min @Load 2.16 kg, Temperature 230 °C	20 - 30 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	15 %	15 %	STN EN ISO 527-2
Tensile Modulus	1.65 GPa	239 ksi	STN EN ISO 527-2
Flexural Strength	35.0 MPa	5080 psi	STN EN ISO 178
Flexural Modulus	1.45 GPa	210 ksi	STN EN ISO 178
Charpy Impact Unnotched	8.50 J/cm ² @Temperature -20.0 °C	40.4 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °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	135 °C Metric	275 °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	125 °C	257 °F	STN EN ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 250 °C	392 - 482 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Drying Temperature	80.0 °C @Time 7200 sec	176 °F @Time 2.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	STN EN ISO 3344
Injection Pressure	60.0 - 70.0 MPa	8700 - 10200 psi	

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