

Plastcom PLASTALEN® PH 91 SDU Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Modified homopolymer PP for injection molding. General use in all industry branches. Delivered in natural mode and in full RAL color. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTALEN-PH-91-SDU-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.880 g/cc	0.0318 lb/in ³	STN EN ISO 1183-1
Linear Mold Shrinkage	0.0184 cm/cm	0.0184 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0191 cm/cm	0.0191 in/in	STN EN ISO 294-4
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 230 °C	25 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	18.0 MPa	2610 psi	STN EN ISO 527-2
Elongation at Break	12 %	12 %	STN EN ISO 527-2
Tensile Modulus	0.780 GPa	113 ksi	STN EN ISO 527-2
Flexural Strength	20.0 MPa	2900 psi	STN EN ISO 178
Flexural Modulus	0.700 GPa	102 ksi	STN EN ISO 178
Charpy Impact Unnotched	1.80 J/cm ² @Temperature -20.0 °C	8.57 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	5.00 J/cm ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.120 J/cm ² @Temperature -20.0 °C	0.571 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.230 J/cm ² @Temperature 23.0 °C	1.09 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

Thermal Properties	Metric	English	Comments
Heat Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	122 °C	252 °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	
Injection Pressure	60.0 - 70.0 MPa	8700 - 10200 psi	

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