

Plastcom PLASTALEN® PH 91 SD 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 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-PH-91-SD-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	STN EN ISO 1183-1
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0193 cm/cm	0.0193 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	30.0 MPa	4350 psi	STN EN ISO 527-2
Elongation at Break	150 %	150 %	STN EN ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	STN EN ISO 527-2
Flexural Strength	40.0 MPa	5800 psi	STN EN ISO 178
Flexural Modulus	1.10 GPa	160 ksi	STN EN ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.500 J/cm ² @Temperature 23.0 °C	2.38 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)	80.0 °C	176 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	150 °C	302 °F	STN EN ISO 306
Flammability, UL94	HB	HB	

Thermal Properties	650 °C Metric	1200 °F English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	STN EN 00695-2-12

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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