

Plastcom PLASTALEN® EH 91 N Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

HDPE regrind for injection molding. General use in all industry branches. Delivered in blue (approx. RAL 5015) mode. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTALEN-EH-91-N-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	STN EN ISO 1183-1
Melt Flow	4.0 - 8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	4.0 - 8.0 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	145 °C	293 °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

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 250 °C	392 - 482 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	0.20 %	0.20 %	STN EN ISO 3344
Injection Pressure	60.0 - 70.0 MPa	8700 - 10200 psi	

Descriptive Properties	Value	Comments
Color	Blue	

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