

Eurostar Staramide 6 80E10 PA6, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Staramide 6 80E10 is a high density, Polyamide 6, Injection Molding Resin (also known as 680E10) Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-6-80E10-PA6-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	4.00 g/cc	0.145 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.011 - 0.013 cm/cm @Thickness 4.00 mm	0.011 - 0.013 in/in @Thickness 0.157 in	E2P method
Ash	82 % @Temperature 650 °C	82 % @Temperature 1200 °F	ISO 3451

Mechanical Properties	Metric	English	Comments
Flexural Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
Flexural Modulus	5.40 GPa	783 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	84.0 °C	183 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	250 - 260 °C	482 - 500 °F	
Zone 2	260 - 280 °C	500 - 536 °F	
Zone 3	260 - 280 °C	500 - 536 °F	
Melt Temperature	260 - 280 °C	500 - 536 °F	
Mold Temperature	80.0 - 110 °C	176 - 230 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.20 %	0.20 %	

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