

Eurostar Staramide P1000EI3 PA6, Impact Modified, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Staramide P1000EI3 is an Impact Modified, Polyamide 6 Injection Molding Resin (also known as P1000HI020) Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-P1000EI3-PA6-Impact-Modified-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.019 - 0.021 cm/cm @Time 86400 sec	0.019 - 0.021 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.019 - 0.021 cm/cm @Time 86400 sec	0.019 - 0.021 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	ISO 527
Elongation at Break	100 %	100 %	ISO 527
Tensile Modulus	1.80 GPa	261 ksi	1 mm/min; ISO 527
Izod Impact, Notched (ISO)	44.0 kJ/m ²	20.9 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	96.0 kJ/m ²	45.7 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	51.0 °C	124 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	220 - 230 °C	428 - 446 °F	
Zone 2	230 - 240 °C	446 - 464 °F	
Zone 3	240 - 250 °C	464 - 482 °F	
Melt Temperature	240 - 250 °C	464 - 482 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
	75.0 - 85.0 °C	167 - 185 °F	

Processing Properties	Metric	English	Comments
	@ Time 14400 - 21600 sec	@ Time 4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

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