

Eurostar Staramide R1000EI2 PA66, Impact Modified, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Staramide R1000EI2 is an Impact Modified Polyamide 66 Injection Molding Resin (also known as R1000HI010) Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-R1000EI2-PA66-Impact-Modified-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.011 - 0.015 cm/cm @Time 86400 sec	0.011 - 0.015 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.010 - 0.015 cm/cm @Time 86400 sec	0.010 - 0.015 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527
Elongation at Break	>= 40 %	>= 40 %	ISO 527
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min; ISO 527
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 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 0.46 MPa (66 psi)	160 °C	320 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	260 - 270 °C	500 - 518 °F	
Zone 2	270 - 290 °C	518 - 554 °F	
Zone 3	270 - 280 °C	518 - 536 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 280 °C	512 - 536 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °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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