

## Eurostar Staramide P1000IX1 PA6, Impact Modified, Injection Molded

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

### Material Notes:

Staramide P1000IX1 is an Impact Modified, Polyamide 6 Injection Molding Resin (also known as P1000HI006 or Star X 2006) Information provided by Eurostar.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurostar-Staramide-P1000IX1-PA6-Impact-Modified-Injection-Molded.php](http://www.lookpolymers.com/polymer_Eurostar-Staramide-P1000IX1-PA6-Impact-Modified-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.023 cm/cm	0.023 in/in	E2P method
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	50 mm/min; ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
Elongation at Yield	3.8 %	3.8 %	50 mm/min; ISO 527
Tensile Modulus	2.50 GPa	363 ksi	1 mm/min; ISO 527
Flexural Yield Strength	65.0 MPa	9430 psi	2 mm/min; ISO 178
Flexural Modulus	1.70 GPa	247 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °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 Processing Properties	240 - 250 °C Metric	464 - 482 °F English	Comments
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
Drying Temperature	75.0 - 85.0 °C @Time 14400 - 21600 sec	167 - 185 °F @Time 4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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