

Eurostar Staramide ALY540A PA66, Glass/Mineral Fiber Reinforced, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass/Mineral Filled

Material Notes:

Staramide ALY540A is a Glass Fiber Reinforced, Mineral Filled Polyamide 66, Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-ALY540A-PA66-GlassMineral-Fiber-Reinforced-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Water Absorption at Saturation	5.5 % @Temperature 23.0 °C	5.5 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	4.20 GPa	609 ksi	1 mm/min; ISO 527
Flexural Strength	115 MPa	16700 psi	2 mm/min; ISO 178
Flexural Modulus	3.80 GPa	551 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ² @Temperature -20.0 °C	1.43 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	3.00 kJ/m ² @Temperature -40.0 °C	1.43 ft-lb/in ² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	4.00 kJ/m ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 µm/m-°C @Temperature 23.0 - 60.0 °C	25.0 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	60.0 µm/m-°C @Temperature 23.0 - 60.0 °C	33.3 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	424 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	165 °C	329 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	225 °C	437 °F	B/120; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Processing Temperature	60.0 - 80.0 °C	140 - 176 °F	Hopper
Zone 1	260 - 280 °C	500 - 536 °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	70.0 - 90.0 °C	158 - 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 %	

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