

Eurostar Staramide AG6ST43H PA66, Glass Fiber Reinforced, Impact Modified, Injection Molding

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

Material Notes:

Staramide AG6ST43H is an Impact Modified, Glass Fiber Reinforced Polyamide 66, Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-AG6ST43H-PA66-Glass-Fiber-Reinforced-Impact-Modified-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	5 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	5 mm/min; ISO 527
Tensile Modulus	5.80 GPa	841 ksi	1 mm/min; ISO 527
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80x10x4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	18.0 kJ/m ²	8.57 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	80x10x4; ISO 180/1A
	22.0 kJ/m ²	10.5 ft-lb/in ²	80x10x4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	400 µm/m-°C	222 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	250 °C	482 °F	B/120; ISO 306
	HB	HB	

Thermal Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	Comments
Processing Properties	Metric	English	Comments
Zone 1	260 - 280 °C	500 - 536 °F	
Zone 2	270 - 280 °C	518 - 536 °F	
Zone 3	270 - 290 °C	518 - 554 °F	
Melt Temperature	270 - 290 °C	518 - 554 °F	
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 %	

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