

Eurostar Staramide AG3X3 PA66, Glass Fiber Reinforced, Impact Modified, Injection Molding

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

Material Notes:

Staramide AG3X3 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-AG3X3-PA66-Glass-Fiber-Reinforced-Impact-Modified-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Moisture Absorption	1.30 % @Temperature 23.0 °C	1.30 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	6.5 % @Temperature 23.0 °C	6.5 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	121	121	ISO 2039-2
Hardness, H358/30	131 MPa	19000 psi	ISO 2039-1
Tensile Strength at Break	100 MPa	14500 psi	5 mm/min; ISO 527
Elongation at Break	3.7 %	3.7 %	5 mm/min; ISO 527
Tensile Modulus	4.80 GPa	696 ksi	1 mm/min; ISO 527
Flexural Strength	16.0 MPa	2320 psi	2 mm/min; ISO 178
Flexural Modulus	4.10 GPa	595 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	80x10x4; ISO 180/1A
	6.00 kJ/m ² @Temperature -40.0 °C	2.86 ft-lb/in ² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	7.00 kJ/m ² @Temperature -20.0 °C	3.33 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	10.0 kJ/m ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
ISO Impact, Unnotched (ISO)	5.00 J/cm ²	23.8 ft-lb/in ²	80x10x4, ISO 180/1U
Charpy Impact Unnotched	@Temperature -30.0 °C	@Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.30 J/cm ²	6.19 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	20	20	CS-17; E2P Method
	@Load 1.00 kg	@Load 2.20 lb	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 µm/m-°C	19.4 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Hot Ball Pressure Test	123 - 127 °C	253 - 261 °F	IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	242 °C	468 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	245 °C	473 °F	B/120; ISO 306
UL RTI, Electrical	65.0 °C	149 °F	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	
Flammability, UL94	HB	HB	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
	16.0 kV/mm	406 kV/in	

Dielectric Strength Electrical Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	in oil: IEC 60243-1 Comments
Comparative Tracking Index	600 V	600 V	IEC 60112
	600 V	600 V	M; IEC 60112

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 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China