

Eurostar Staramide AG3K PA66, 15% Glass Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled , Nylon 66, Heat Stabilized

Material Notes:

AG3K is a Heat and Hydrolytically Stabilized, 15% Glass Fiber Reinforced Polyamide 66 Injection Molding Resin. Information provided by Polymer Technology & Services, the North American exclusive supplier.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-AG3K-PA66-15-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Water Absorption at Saturation	7.0 % @Temperature 23.0 °C	7.0 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	on Tensile Bar; ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	6.50 GPa	943 ksi	1 mm/min; ISO 527
Flexural Strength	175 MPa	25400 psi	2 mm/min; ISO 178
Flexural Modulus	6.00 GPa	870 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80x10x4; ISO 180/1A
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	Edgew 80x10x4; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 µm/m-°C @Temperature 23.0 - 60.0 °C	19.4 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	100 µm/m-°C @Temperature 23.0 - 60.0 °C	55.6 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft ² -°F	ISO 8302
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Af
Vicat Softening Point	253 °C	487 °F	B/120; ISO 306

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	@Thickness 0.750 mm	@Thickness 0.0295 in	
	65.0 °C	149 °F	
UL RTI, Mechanical with Impact	@Thickness 3.00 mm	@Thickness 0.118 in	
	65.0 °C	149 °F	
UL RTI, Mechanical without Impact	@Thickness 0.750 mm	@Thickness 0.0295 in	
	65.0 °C	149 °F	
Flammability, UL94	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	IEC 60695-11-10
Flame Spread	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	IEC 60695-11-10
Glow Wire Test	@Thickness 3.00 mm	@Thickness 0.118 in	
	5.00 mm/min	0.197 in/min	FMVSS Buring Speed
Flame Spread	@Thickness 2.00 mm	@Thickness 0.0787 in	
	10.0 mm/min	0.394 in/min	FMVSS Buring Speed
Glow Wire Test	@Thickness 2.00 mm	@Thickness 0.0787 in	
	650 °C	1200 °F	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	ROA; IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Constant	3.4	3.4	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	

Electrical Properties	Metric	English	Comments
Dielectric Strength	@Thickness 3.20 mm	@Thickness 0.126 in	in oil, IEC 60243-1
Dissipation Factor	0.0068	0.0068	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	450 V	450 V	M; IEC 60112
	550 V	550 V	IEC 60112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 280 °C	500 - 536 °F	Zone 1
Middle Barrel Temperature	270 - 280 °C	518 - 536 °F	Zone 2
Front Barrel Temperature	270 - 290 °C	518 - 554 °F	Zone 3
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	167 - 185 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

Descriptive Properties	Value	Comments
UL f1	f1	

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