

Eurostar Staramide AG4K PA66, 20% Glass Filled, Injection Molded

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

Material Notes:

AG4K is a Heat and Hydrolytically Stabilized, 20% 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-AG4K-PA66-20-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 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	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	on Tensile Bar; ISO 294

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	112	112	ISO 2039-2
Tensile Strength at Break	130 MPa	18900 psi	5 mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527
Tensile Modulus	7.00 GPa	1020 ksi	1 mm/min; ISO 527
Flexural Strength	190 MPa	27600 psi	2 mm/min; ISO 178
Flexural Modulus	6.80 GPa	986 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Temperature -40.0 °C	1.90 ft-lb/in ² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	5.00 kJ/m ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	80x10x4; ISO 180/1A
	6.00 kJ/m ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	Edgew 80x10x4; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 µm/m-°C @Temperature 23.0 - 60.0 °C	17.2 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2

Thermal Properties	Metric °C	English °F	Comments
CTE, linear, Transverse to Flow	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	ISO 11359-2
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft²-°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Af
Vicat Softening Point	255 °C	491 °F	B/120; ISO 306
UL RTI, Electrical	65.0 °C	149 °F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	65.0 °C	149 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	65.0 °C	149 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	65.0 °C	149 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flame Spread	5.00 mm/min	0.197 in/min	FMVSS Buring Speed
	@Thickness 3.00 mm	@Thickness 0.118 in	
	10.0 mm/min	0.394 in/min	FMVSS Buring Speed
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Oxygen Index	27 %	27 %	ISO 4589
Glow Wire Test	650 °C	1200 °F	IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{16}$ ohm-cm	$\geq 1.00 \times 10^{16}$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00 \times 10^{16}$ ohm	$\geq 1.00 \times 10^{16}$ ohm	ROA; IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	19.0 kV/mm	483 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
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	400 V	400 V	M; IEC 60112
	500 V	500 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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