Eurostar Staramide AG10K PA66, 50% Glass Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled , Nylon 66, Heat Stabilized

Material Notes:

AG10 is a Heat and Hydrolytically Stabilized, 50% Glass Fiber Reinforced Polyamide 66 Injection Molding ResinInformation provided by Polymer Technology & Services, the North American exclusive supplier.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Eurostar-Staramide-AG10K-PA66-50-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in³	ISO 1183
Moisture Absorption	0.700 % @Temperature 23.0 °C	0.700 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	2.5 % @Temperature 23.0 °C	2.5 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.0010 - 0.0025 cm/cm	0.0010 - 0.0025 in/in	on Tensile Bar; ISO 294

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	114	114	ISO 2039-2
Tensile Strength at Break	200 MPa	29000 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	14.5 GPa	2100 ksi	1 mm/min; ISO 527
Flexural Strength	310 MPa	45000 psi	2 mm/min; ISO 178
Flexural Modulus	13.5 GPa	1960 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m² @Temperature -30.0 °C	6.19 ft-lb/in² @Temperature -22.0 °F	80x10x4; ISO 180/1A
	13.0 kJ/m² @Temperature -40.0 °C	6.19 ft-lb/in² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	14.0 kJ/m² @Temperature -20.0 °C	6.66 ft-lb/in² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	15.0 kJ/m² @Temperature 23.0 °C	7.14 ft-lb/in² @Temperature 73.4 °F	80x10x4; ISO 180/1A
Charpy Impact Unnotched	14.0 J/cm²	66.6 ft-lb/in²	Edgew 80x10x4 sp=62; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Thermal Properties	**Metric**	**English**	**Comments**
CTE, linear, Parallel to Flow	19.0 µm/m-°C @Temperature 23.0 - 60.0 °C	10.6 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	71.0 µm/m-°C @Temperature 23.0 - 60.0 °C	39.4 µin/in-°F @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)	262 °C	504 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	258 °C	496 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Af
Vicat Softening Point	260 °C	500 °F	B/120; ISO 306
	260 °C	500 °F	B/50; ISO 306
UL RTI, Electrical	65.0 °C @Thickness 0.750 mm	149 °F @Thickness 0.0295 in	
	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	
UL RTI, Mechanical with Impact	65.0 °C @Thickness 0.750 mm	149 °F @Thickness 0.0295 in	
	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	
UL RTI, Mechanical without Impact	65.0 °C @Thickness 0.750 mm	149 °F @Thickness 0.0295 in	
	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	IEC 60695-11-10
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	IEC 60695-11-10
Flame Spread	2.00 mm/min @Thickness 3.00 mm	0.0787 in/min @Thickness 0.118 in	FMVSS Buring Speed

Thermal Properties	Metric	English	Comments
	6.00 mm/min @Thickness 2.00 mm	0.236 in/min @Thickness 0.0787 in	FMVSS Buring Speed
Oxygen Index	27 %	27 %	ISO 4589
Glow Wire Test	650 °C @Thickness 2.00 mm	1200 °F @Thickness 0.0787 in	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 @Frequency 1.00e+6 Hz	3.2 @Frequency 1.00e+6 Hz	IEC 60250
	3.4 @Frequency 50.0 - 60.0 Hz	3.4 @Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	19.0 kV/mm @Thickness 3.20 mm	483 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
Dissipation Factor	0.0068 @Frequency 50.0 - 60.0 Hz	0.0068 @Frequency 50.0 - 60.0 Hz	IEC 60250
	0.015 @Frequency 1.00e+6 Hz	0.015 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	350 V	350 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	

Processing Properties	Metric	English	Comments
Moisture Content	0.20 %	0.20 %	

Descriptive Properties	Value	Comments
Potable Water	ACS WRAS	
UL f1	f1	

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