Eurostar Staramide AG8 PA66, 40% Glass Fiber Reinforced, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

Staramide AG8 is a 40% Glass Fiber Reinforced Polyamide 66, Injection Molding ResinInformation provided by Eurostar.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Eurostar-Staramide-AG8-PA66-40-Glass-Fiber-Reinforced-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in³	ISO 1183
Moisture Absorption	0.900 % @Temperature 23.0 °C	0.900 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	3.0 % @Temperature 23.0 °C	3.0 % @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; E2P method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	114	114	ISO 2039-2
Tensile Strength at Break	205 MPa	29700 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	12.0 GPa	1740 ksi	1 mm/min; ISO 527
Flexural Strength	295 MPa	42800 psi	2 mm/min; ISO 178
Flexural Modulus	1.10 GPa	160 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m² @Temperature -40.0 °C	5.23 ft-lb/in² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	12.0 kJ/m² @Temperature -20.0 °C	5.71 ft-lb/in² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	12.0 kJ/m² @Temperature -30.0 °C	5.71 ft-lb/in² @Temperature -22.0 °F	80x10x4; ISO 180/1A
	13.0 kJ/m² @Temperature 23.0 °C	6.19 ft-lb/in² @Temperature 73.4 °F	80x10x4; ISO 180/1A

Thermal Properties	Metric	English	Comments

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CTE, linear, Parallel to Flow	21.0 µm/m-°C @Temperature 23.0 - 60.0 °C	11.7 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	73.0 µm/m-°C @Temperature 23.0 - 60.0 °C	40.6 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
Hot Ball Pressure Test	123 - 127 °C	253 - 261 °F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	258 °C	496 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	258 °C	496 °F	B/120; ISO 306
	260 °C	500 °F	B/50; ISO 306
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	
Flame Spread	2.00 mm/min @Thickness 2.00 mm	0.0787 in/min @Thickness 0.0787 in	FMVSS Burning Speed
	6.00 mm/min @Thickness 2.00 mm	0.236 in/min @Thickness 0.0787 in	FMVSS Burning 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	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
	19.0 kV/mm	483 kV/in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	@Thickness 3.20 mm	@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
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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