

Eurostar Staramide AG7K PA66, 35% Glass Filled, Injection Molded

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

Material Notes:

AG7 is a Heat and Hydrolytically Stabilized, 35% 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-AG7K-PA66-35-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Moisture Absorption	1.10 % @Temperature 23.0 °C	1.10 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	4.5 % @Temperature 23.0 °C	4.5 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.0015 - 0.0030 cm/cm	0.0015 - 0.0030 in/in	on Tensile Bar; ISO 294

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	114	114	ISO 2039-2
Tensile Strength at Break	180 MPa	26100 psi	5 mm/min; ISO 527
Elongation at Break	3.3 %	3.3 %	5 mm/min; ISO 527
Tensile Modulus	10.5 GPa	1520 ksi	1 mm/min; ISO 527
Flexural Strength	280 MPa	40600 psi	2 mm/min; ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ² @Temperature -40.0 °C	4.28 ft-lb/in ² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	80x10x4; ISO 180/1A
	11.0 kJ/m ² @Temperature -20.0 °C	5.23 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	12.0 kJ/m ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A
	6.00 J/cm ²	28.6 ft-lb/in ²	

Charpy Impact Unnotched Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eU Comments
	8.00 J/cm²	38.1 ft-lb/in²	Edgew 80x10x4 sp=62; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.900 J/cm²	4.28 ft-lb/in²	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.00 J/cm²	4.76 ft-lb/in²	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 µm/m-°C	12.2 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	78.0 µm/m-°C	43.3 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft²-°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °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	255 °C	491 °F	B/120; ISO 306
	256 °C	493 °F	B/50; 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	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Flame Spread	2.00 mm/min	0.0787 in/min	FMVSS Buring Speed
	@Thickness 3.00 mm	@Thickness 0.118 in	
	6.00 mm/min	0.236 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	Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	650 °C	1200 °F	Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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	
	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	375 V	375 V	M; IEC 60112

Electrical Properties	Metric	English	Comments
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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
Potable Water	KTW	
UL f1	f1	

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