

Eurostar Staramide PF007 PA6, 35% Glass Fiber Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

Material Notes:

Staramide PF007 is a 35% Glass Fiber Reinforced, Polyamide 6 Injection Molding Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-PF007-PA6-35-Glass-Fiber-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Moisture Absorption	1.60 % @Temperature 23.0 °C	1.60 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	6.2 % @Temperature 23.0 °C	6.2 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0015 - 0.0035 cm/cm	0.0015 - 0.0035 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	112	112	ISO 2039-2
Tensile Strength at Break	180 MPa	26100 psi	5 mm/min; ISO 527
Elongation at Break	3.2 %	3.2 %	5 mm/min; ISO 527
Tensile Modulus	10.0 GPa	1450 ksi	1 mm/min; ISO 527
Flexural Strength	280 MPa	40600 psi	2 mm/min; ISO 178
Flexural Modulus	9.75 GPa	1410 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	80x10x4; ISO 180/1A
	16.0 kJ/m ² @Temperature 23.0 °C	7.61 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	80x10x4; ISO 180/1U
	11.0 kJ/m ² @Temperature 23.0 °C	5.23 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1U
Charpy Impact Unnotched	8.50 J/cm ² @Temperature -30.0 °C	40.4 ft-lb/in ² @Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	3.00 J/cm ²	42.4 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	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	21.0 µm/m-°C	11.7 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	81.0 µm/m-°C	45.0 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-ft ² -°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)	220 °C	428 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	216 °C	421 °F	B/120; ISO 306
	217 °C	423 °F	B/50; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Flame Spread	5.00 mm/min	0.197 in/min	FMVSS Burning Speed
	@Thickness 3.00 mm	@Thickness 0.118 in	
	10.0 mm/min	0.394 in/min	FMVSS Burning 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
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Volume Resistivity Electrical Properties	$\geq 1.00\text{e}+16$ ohm-cm Metric	$\geq 1.00\text{e}+16$ ohm-cm English	IEC 60093 Comments
Surface Resistance	$\geq 1.00\text{e}+16$ ohm	$\geq 1.00\text{e}+16$ ohm	ROA; IEC 60093
Dielectric Constant	3.4	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.6	3.6	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0061	0.0061	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Comparative Tracking Index	0.016	0.016	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
Zone 1	230 - 240 °C	446 - 464 °F	
Zone 2	240 - 250 °C	464 - 482 °F	
Zone 3	240 - 270 °C	464 - 518 °F	
Melt Temperature	240 - 270 °C	464 - 518 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	75.0 - 85.0 °C	167 - 185 °F	
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China