

Eurostar Staramide RF00AES PA66/6, 50% Glass Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 40% Glass Fiber Reinforced

Material Notes:

Staramide RF00AES is a 50% Glass Fiber Reinforced Polyamide 66/Polyamide 6 Injection Molding Resin (also known as Staramide 66 C 50V S3) Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-RF00AES-PA666-50-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Moisture Absorption	0.850 % @Temperature 23.0 °C	0.850 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	2.75 % @Temperature 23.0 °C	2.75 % @Temperature 73.4 °F	ISO 62
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	210 MPa	30500 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	16.0 GPa	2320 ksi	1 mm/min; ISO 527
Flexural Strength	310 MPa	45000 psi	2 mm/min; ISO 178
Flexural Modulus	15.0 GPa	2180 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ² @Temperature -30.0 °C	5.23 ft-lb/in ² @Temperature -22.0 °F	80x10x4; ISO 179/1eA
	11.0 kJ/m ² @Temperature -40.0 °C	5.23 ft-lb/in ² @Temperature -40.0 °F	80x10x4; ISO 179/1eA
	12.0 kJ/m ² @Temperature -20.0 °C	5.71 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 179/1eA
	13.0 kJ/m ² @Temperature 23.0 °C	6.19 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 179/1eA
	45.0 kJ/m ²	21.4 ft-lb/in ²	

120d Impact, Unnotched (ISO) Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	80x10x4; ISO 180/1U Comments
	55.0 kJ/m ²	26.2 ft-lb/in ²	80x10x4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 µm/m-°C @Temperature 23.0 - 60.0 °C	6.67 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	136 µm/m-°C @Temperature 23.0 - 60.0 °C	75.6 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Hot Ball Pressure Test	123 - 127 °C	253 - 261 °F	IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	230 °C	446 °F	B/50; ISO 306
	232 °C	450 °F	B/120; ISO 306
	240 °C	464 °F	A/50; ISO 306
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
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

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.0 kV/mm	480 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	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	167 - 185 °F	
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

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