Eurostar Staramide A28 PA66, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Staramide A28 is an Unreinforced, Polyamide 66, Injection Molding ResinInformation provided by Eurostar.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Eurostar-Staramide-A28-PA66-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in³	ISO 1183
Moisture Absorption	2.00 % @Temperature 23.0 °C	2.00 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	8.5 % @Temperature 23.0 °C	8.5 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.016 - 0.020 cm/cm	0.016 - 0.020 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	85.0 MPa	12300 psi	50 mm/min; ISO 527
Elongation at Break	>= 20 %	>= 20 %	50 mm/min; ISO 527
Elongation at Yield	3.8 %	3.8 %	50 mm/min; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min; ISO 527
Flexural Yield Strength	105 MPa	15200 psi	2 mm/min; ISO 178
Flexural Modulus	2.80 GPa	406 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m² @Temperature -30.0 °C	1.43 ft-lb/in² @Temperature -22.0 °F	80x10x4; ISO 180/1A
	3.00 kJ/m² @Temperature -40.0 °C	1.43 ft-lb/in² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	4.00 kJ/m² @Temperature -20.0 °C	1.90 ft-lb/in² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	5.00 kJ/m² @Temperature 23.0 °C	2.38 ft-lb/in² @Temperature 73.4 °F	80x10x4; ISO 180/1A
Charpy Impact Unnotched	>= 10.0 J/cm² @Temperature -30.0 °C	>= 47.6 ft-lb/in² @Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	>= 27.0 J/cm² @Temperature 23.0 °C	>= 12.8 ft-lb/in² @Temperature 73.4 °F	Edgew 80x10x4 sp=62; ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm² @Temperature -30.0 °C	1.43 ft-lb/in² @Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eA
	0.500 J/cm² @Temperature 23.0 °C	2.38 ft-lb/in² @Temperature 73.4 °F	Edgew 80x10x4 sp=62; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C @Temperature 23.0 - 60.0 °C	44.4 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C @Temperature 23.0 - 60.0 °C	44.4 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 0.46 MPa (66 psi)	210 °C	410 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
Oxygen Index	26 %	26 %	ISO 4589

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	2.9 @Frequency 1.00e+6 Hz	2.9 @Frequency 1.00e+6 Hz	IEC 60250
	3.2 @Frequency 50.0 - 60.0 Hz	3.2 @Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	16.0 kV/mm @Thickness 3.20 mm	406 kV/in @Thickness 0.126 in	in oil; IEC 60243-1

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.0055 @Frequency 50.0 - 60.0 Hz	0.0055 @Frequency 50.0 - 60.0 Hz	IEC 60250
	0.017 @Frequency 1.00e+6 Hz	0.017 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	260 - 270 °C	500 - 518 °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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