

Eurostar Staramide B28N PA6, Nucleated, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Nucleated

Material Notes:

Staramide B28N is a Nucleated and Unreinforced Polyamide 6, Injection Molding Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-B28N-PA6-Nucleated-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption	2.60 % @Temperature 23.0 °C	2.60 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	10 % @Temperature 23.0 °C	10 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.011 - 0.015 cm/cm	0.011 - 0.015 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ISO 2039-2
Tensile Strength, Yield	70.0 MPa	10200 psi	50 mm/min; ISO 527
Elongation at Break	>= 15 %	>= 15 %	50 mm/min; ISO 527
Elongation at Yield	3.5 %	3.5 %	50 mm/min; ISO 527
Tensile Modulus	2.70 GPa	392 ksi	1 mm/min; ISO 527
Flexural Yield Strength	85.0 MPa	12300 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ² @Temperature -40.0 °C	1.43 ft-lb/in ² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	4.00 kJ/m ² @Temperature -20.0 °C	1.90 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	5.00 kJ/m ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A
Charpy Impact Unnotched	>= 10.0 J/cm ² @Temperature -30.0 °C	>= 47.6 ft-lb/in ² @Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eU

Mechanical Properties	$\geq 27.0 \text{ J/cm}^2$ Metric	$\geq 128 \text{ ft-lb/in}^2$ English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	10x4 sp=62; ISO 179/1eJ
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.500 J/cm ²	2.38 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	80.0 $\mu\text{m/m-}^\circ\text{C}$	44.4 $\mu\text{in/in-}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	80.0 $\mu\text{m/m-}^\circ\text{C}$	44.4 $\mu\text{in/in-}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Thermal Conductivity	0.290 W/m-K	2.01 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)	180 °C	356 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	200 °C	392 °F	B/120; ISO 306
	210 °C	410 °F	
UL RTI, Electrical	65.0 °C	149 °F	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	
Flammability, UL94	HB	HB	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	24 %	24 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+16 \text{ ohm-cm}$	$\geq 1.00\text{e}+16 \text{ ohm-cm}$	IEC 60093

Surface Resistance Electrical Properties	$\geq 1.00e+16$ ohm Metric	$\geq 1.00e+16$ ohm English	IEC 60093 Comments
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.3	3.3	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0058	0.0058	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.018	0.018	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112
	600 V	600 V	M; 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	250 - 260 °C	482 - 500 °F	
Melt Temperature	250 - 260 °C	482 - 500 °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 %	

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