

## Eurostar Staramide A28N PA66, Nucleated, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Nucleated

### Material Notes:

Staramide A28K is an Unreinforced and Heat Stabilized, Polyamide 66, Injection Molding Resin Information provided by Eurostar.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurostar-Staramide-A28N-PA66-Nucleated-Injection-Molding.php](http://www.lookpolymers.com/polymer_Eurostar-Staramide-A28N-PA66-Nucleated-Injection-Molding.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	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
Hardness, Rockwell L	118	118	ISO 2039-2
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/m <sup>2</sup> @Temperature -30.0 °C	1.43 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80x10x4; ISO 180/1A
	3.00 kJ/m <sup>2</sup> @Temperature -40.0 °C	1.43 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	80x10x4; ISO 180/1A
	4.00 kJ/m <sup>2</sup> @Temperature -20.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	80x10x4; ISO 180/1A
	5.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
	$\geq 10.0 \text{ J/cm}^2$ @Temperature -30.0 °C	$\geq 47.5 \text{ ft-lb/in}^2$ @Temperature -22.0 °F	10x4 sp=62; ISO 179/1eU
	$\geq 27.0 \text{ J/cm}^2$ @Temperature 23.0 °C	$\geq 128 \text{ ft-lb/in}^2$ @Temperature 73.4 °F	Edgew 80x10x4 sp=62; ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm <sup>2</sup> @Temperature -30.0 °C	1.43 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eA
	0.500 J/cm <sup>2</sup> @Temperature 23.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Edgew 80x10x4 sp=62; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 23.0 - 60.0 °C	44.4 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 23.0 - 60.0 °C	44.4 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 73.4 - 140 °F	ISO 11359-2
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ft <sup>2</sup> -°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)	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
Vicat Softening Point	240 °C	464 °F	B/120; ISO 306
	243 °C	469 °F	B/50; ISO 306
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	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	$\geq 1.00\text{e}+16 \text{ ohm-cm}$	$\geq 1.00\text{e}+16 \text{ ohm-cm}$	IEC 60093

Surface Resistance Electrical Properties	$\geq 1.00e+16$ ohm Metric	$\geq 1.00e+16$ ohm English	ROA: IEC 60093 Comments
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
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
	600 V	600 V	M; 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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