

Eurostar Staramide AK8ST41 PA66, Mineral Reinforced, Impact Modified, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Mineral Filled

Material Notes:

Staramide AK8ST41 is an Impact Modified, Mineral Filled Polyamide 66, Injection Molding Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-AK8ST41-PA66-Mineral-Reinforced-Impact-Modified-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Water Absorption at Saturation	0.50 % @Temperature 23.0 °C	0.50 % @Temperature 73.4 °F	ISO 62-1

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.0 MPa	10200 psi	50 mm/min; ISO 527
Elongation at Break	10 %	10 %	50 mm/min; ISO 527
Tensile Modulus	4.80 GPa	696 ksi	1 mm/min; ISO 527
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80x10x4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 µm/m-°C @Temperature 23.0 - 60.0 °C	33.3 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	60.0 µm/m-°C @Temperature 23.0 - 60.0 °C	33.3 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	150 °C	302 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	245 °C	473 °F	B/120; ISO 306

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	260 - 280 °C	500 - 536 °F	

Processing Properties	Metric	English	Comments
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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