

Eurostar Staramide AST43 PA66, Impact Modified, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

AST43 is a Low Temperature Impact Modified Polyamide 66 Injection Molding Resin. Information provided by Polymer Technology & Services, the North American exclusive supplier.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-AST43-PA66-Impact-Modified-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Water Absorption at Saturation	5.5 % @Temperature 23.0 °C	5.5 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	on Tensile Bar; ISO 294

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ISO 2039-2
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
Elongation at Break	>= 100 %	>= 100 %	50 mm/min; ISO 527
Elongation at Yield	4.6 %	4.6 %	50 mm/min; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
Izod Impact, Notched (ISO)	30.0 kJ/m ² @Temperature -40.0 °C	14.3 ft-lb/in ² @Temperature -40.0 °F	Edgew 80x10x4 sp=62; ISO 180/1A
	40.0 kJ/m ² @Temperature -20.0 °C	19.0 ft-lb/in ² @Temperature -4.00 °F	Edgew 80x10x4 sp=62; ISO 180/1A
	50.0 kJ/m ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	Edgew 80x10x4 sp=62; ISO 180/1A
Charpy Impact Unnotched	>= 10.0 J/cm ² @Temperature 23.0 °C	>= 47.6 ft-lb/in ² @Temperature 73.4 °F	Edgew 80x10x4 sp=62; ISO 179/1eU
	>= 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

Thermal Properties	Metric	English	Comments
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Thermal Properties CTE, linear, Parallel to Flow	100 µm/m-°C Metric	55.6 µin/in-°F English	Comments ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	110 µm/m-°C @Temperature 23.0 - 60.0 °C	61.1 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Af
UL RTI, Electrical	65.0 °C @Thickness 0.750 mm	149 °F @Thickness 0.0295 in	
	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	
	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	
UL RTI, Mechanical with Impact	65.0 °C @Thickness 0.750 mm	149 °F @Thickness 0.0295 in	
	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	
	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	
UL RTI, Mechanical without Impact	65.0 °C @Thickness 0.750 mm	149 °F @Thickness 0.0295 in	
	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	
	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	IEC 60695-11-10
	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	IEC 60695-11-10
	HB	HB	IEC 60695-11-10

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+16$ ohm-cm	$\geq 1.00\text{e}+16$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+16$ ohm	$\geq 1.00\text{e}+16$ ohm	ROA; IEC 60093
Dielectric Constant	2.7	2.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.9	2.9	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	0.0067	0.0067	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	600 V	600 V	IEC 60112
	600 V	600 V	M; IEC 60112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 260 °C	482 - 500 °F	Zone 1
Middle Barrel Temperature	265 - 275 °C	509 - 527 °F	Zone 2
Front Barrel Temperature	265 - 275 °C	509 - 527 °F	Zone 3
Melt Temperature	265 - 275 °C	509 - 527 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	75.0 - 85.0 °C	167 - 185 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

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