

Eurostar Staramide BST42 PA6, Impact Modified, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

Material Notes:

BST42 is a Low Temperature Impact Modified Polyamide 6 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-BST42-PA6-Impact-Modified-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.014 - 0.018 cm/cm	0.014 - 0.018 in/in	on Tensile Bar; ISO 294

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ISO 2039-2
Tensile Strength, Yield	56.0 MPa	8120 psi	50 mm/min; ISO 527
Elongation at Break	>= 100 %	>= 100 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	2.50 GPa	363 ksi	1 mm/min; ISO 527
Flexural Yield Strength	80.0 MPa	11600 psi	2 mm/min; ISO 178
Flexural Modulus	2.00 GPa	290 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	9.00 kJ/m ²	4.28 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	Edgew 80x10x4 sp=62; ISO 180/1A
	13.0 kJ/m ²	6.19 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	>= 10.0 J/cm ²	>= 47.6 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	93.0 µm/m-°C	51.7 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
	117 µm/m-°C	65.0 µin/in-°F	

Thermal Properties	Metric	English	Comments
CTE, Linear Transverse to Flow	@ Temperature 23.0 - 60.0 °C	@ Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Af
Vicat Softening Point	210 °C	410 °F	B/120; ISO 306

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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	220 - 230 °C	428 - 446 °F	Zone 1
Middle Barrel Temperature	230 - 240 °C	446 - 464 °F	Zone 2
Front Barrel Temperature	240 - 250 °C	464 - 482 °F	Zone 3
Melt Temperature	240 - 250 °C	464 - 482 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °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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