

Ensinger Tecamid® ST Nylon (PA)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Super Tough nylon, increased impact resistance and toughness over nylon 6/6. Information provided by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecamid-ST-Nylon-PA.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792
Water Absorption	1.2 %	1.2 %	at 24 hours; ASTM D570
Water Absorption at Saturation	6.7 %	6.7 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength, Yield	49.6 MPa	7200 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	67.6 MPa	9800 psi	ASTM D790
Flexural Modulus	1.69 GPa	245 ksi	ASTM D790
Izod Impact, Notched	9.08 J/cm	17.0 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.28	0.28	40 psi, 50 fpm; ASTM D3702
K (wear) Factor	403 x 10 ⁻⁸ mm ³ /N-M	200 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40 psi, 50 fpm; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	121 µm/m-°C	67.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	263 °C	505 °F	ASTM D2133
Deflection Temperature at 0.46 MPa (66 psi)	216 °C	421 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.1 °C	160 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 0.810 mm	@Thickness 0.0319 in	

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