

Ensinger TECATOR™ GF30 (XP142T) Polyamide-imide (PAI), 30% glass filled, compression molded

Category : Polymer , Thermoplastic , Polyamide-imide (PAI) , Polyamide-Imide, Glass Filled , Polyamide-Imide, Molded

Material Notes:

TECATOR™ is a high performance melt processable polyamideimide that maintains its excellent mechanical and wear properties in temperature environments exceeding 500°F. Stock shapes from Ensinger are available in three grades: TECATOR™ TI 5013, high strength structural grade featuring good electrical properties and strength, making it ideal for demanding applications at a broad range of temperatures. TECATOR™ TI 5031 offers high PV capabilities in bearing applications, primarily at high loads and low speeds. TECATOR™ GF30 (XP1424T) is a 30% glass filled grade, compression molded with superior stiffness and dimensional stability. It is available in a wide variety of custom tube, ring, rod and plate sizes. Excellent weather and gamma radiation resistance Outstanding bearing wear properties (at elevated temperatures, TECATOR™ TI 5031 offers superior wear rates) High strength and stiffness Excellent electrical values Good chemical resistance (TECATOR™ is not attacked by common solvents or fuels and is acceptable for use in contact with many acids) Maintains a high proportion of mechanical properties over a broad temperature spectrum - cryogenic to 500°F TECATOR™ TI 5013 and TI 5031 are available in a wide variety of metric sizes in rod and plate TECATOR™ (PAI) typical applications: Pump parts, valve seats, piston rings, seal rings, engine transmission parts and bearing cages. For the semiconductor industry it is used for "burn in" test sockets, nests, chassis and other applications such as welding nozzle tips. Information Provided by Ensinger Industries, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-TECATOR-GF30-XP142T-Polyamide-imide-PAI-30-glass-filled-compression-molded.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	116	116	ASTM D785
Tensile Strength at Break	117 MPa @Temperature 22.8 °C	17000 psi @Temperature 73.0 °F	ASTM D638
Elongation at Break	2.0 % @Temperature 22.8 °C	2.0 % @Temperature 73.0 °F	ASTM D638
Flexural Strength	145 MPa @Temperature 22.8 °C	21000 psi @Temperature 73.0 °F	ASTM D790
Flexural Modulus	5.66 GPa @Temperature 22.8 °C	821 ksi @Temperature 73.0 °F	ASTM D790
Izod Impact, Notched	0.400 J/cm @Temperature 22.8 °C	0.750 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	38.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	21.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
Maximum Service Temperature, Air	260 $^{\circ}\text{C}$	500 $^{\circ}\text{F}$	continuous
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.8	3.8	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.3	4.3	
Dielectric Strength	@Frequency 2.00e+7 Hz	@Frequency 2.00e+7 Hz	ASTM D150
	4.4	4.4	
	@Frequency 3.00e+7 Hz	@Frequency 3.00e+7 Hz	
Dissipation Factor	17.7 kV/mm	450 kV/in	ASTM D149
Dissipation Factor	0.0050	0.0050	
	@Frequency 2.00e+7 Hz	@Frequency 2.00e+7 Hz	
	0.0060	0.0060	
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.0080	0.0080	
	@Frequency 3.00e+7 Hz	@Frequency 3.00e+7 Hz	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China