

TECATOR™ GF30

Polyamide-imide

Ensinger Inc.

Message:

TECATOR is a high performance melt processable polyamide-imide that maintains its excellent mechanical and wear properties in temperature environments exceeding 500°F. TECATOR GF30 (XP142T) 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.

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.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Wear Resistance		
	Good Weather Resistance		
	High Stiffness		
	High Strength		
	Radiation (Gamma) Resistant		
Uses	Automotive Applications		
	Pump Parts		
	Seals		
	Valves/Valve Parts		
Forms	Plate		
	Rod		
	Tubing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	117	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0	%	ASTM D638
Flexural Modulus (23°C)	5660	MPa	ASTM D790
Flexural Strength (23°C)	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	40	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	260	°C	
CLTE - Flow	3.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 MHz	3.80		
20.0 GHz	4.30		
30.0 GHz	4.40		
Dissipation Factor			ASTM D150
1 MHz	6.0E-3		
20.0 GHz	5.0E-3		
30.0 GHz	8.0E-3		

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