

TECATOR™ T15013

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 TI5013, is a high strength structural grade featuring good electrical properties and strength, making it ideal for demanding applications at a broad range of temperatures.

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			
Features	Good Chemical Resistance		
	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	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm³	ASTM D792
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	145	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	15	%	ASTM D638
Flexural Modulus (23°C)	4900	MPa	ASTM D790
Flexural Strength (23°C)	228	MPa	ASTM D790
Compressive Strength (1% Strain)	207	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	278	°C	ASTM D648
Continuous Use Temperature	260	°C	

CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+15	ohms	ASTM D257
Dielectric Strength	24	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 MHz	3.90		
20.0 GHz	3.20		
30.0 GHz	3.70		
Dissipation Factor			ASTM D150
1 MHz	9.0E-3		
20.0 GHz	9.0E-3		
30.0 GHz	5.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

