

TECATOR™ T15031

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 T15031 offers high PV capabilities in bearing applications, primarily at high loads and low speeds. 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	1.46	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	109		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	131	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	10	%	ASTM D638
Flexural Modulus (23°C)	6000	MPa	ASTM D790
Flexural Strength (23°C)	159	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	279	°C	ASTM D648
Continuous Use Temperature	260	°C	
Electrical	Nominal Value		Test Method
Dielectric Constant			ASTM D150


20.0 GHz	3.80	
30.0 GHz	3.90	
Dissipation Factor		ASTM D150
20.0 GHz	0.012	
30.0 GHz	0.018	
Flammability	Nominal Value	Test Method
Flame Rating	V-0	UL 94

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