

TECATOR TI5031 - Stock Shapes

Chemical Designation

PAI (Polyamidimide)

Colour

black

Density

1.46 g/cm³

Main features

- excellent wear properties
- high gamma radiation resistance
- excellent strength and stiffness
- good chemical resistance
- high thermal resistance

Target Industries

- power engineering
- semiconductor technology
- hot glass technology
- automotive industry
- cryogenic engineering

Mechanical properties	condition	value		test method	comment
Tensile strength at break	@ 73 °F	19,000	psi	ASTM D 638	
Elongation at break	@ 73 °F	10	%	ASTM D 638	
Flexural strength	@ 73 °F	23,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73 °F	870,000	psi	ASTM D 790	
Impact strength (Izod)	@ 73 °F	2.0	ft-lbs/in	ASTM D 256	
Rockwell hardness	M Scale	109		ASTM D 785	
Thermal properties	condition	value		test method	comment
Deflection temperature	@264 psi	534	°F	ASTM D 648	
Service temperature	Long Term	500	°F	-	
Electrical properties	condition	value		test method	comment
Dissipation factor	@ 20 ghz	0.012		ASTM D 150	
Dissipation factor	@ 30 ghz	0.018		ASTM D 150	
Dielectric constant	@ 20 ghz	3.8		ASTM D 150	
Dielectric constant	@ 30 ghz	3.9		ASTM D 150	
Other properties	condition	value		test method	comment
Flammability (UL94)		V-0		-	

- Resin specification:
ASTM D5204-11 PAI022L15
- Shapes specification:
NONE

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