

Tolron® 5030 Material Specifications

Torlon® has superior resistance to elevated temperatures. It is capable of performing under severe stress conditions at continuous temperatures to 500°F (260°C). Torlon® has extremely low coefficient of linear thermal expansion.

Physical Properties	Units	Test	5030
Density	lb/in ³ g/cm ³	D792	-
Water Absorption, 24 hrs.	%	D570	0.3
Water Absorption, Saturation	%	D570	1.5

Mechanical Properties	Units	Test	5030
Tensile Strength	psi	D638	23,000
Tensile Modules	psi	D638	1,000,000
Tensile Elongation at Break	%	D638	4
Flexural Strength	psi	D790	30,000
Flexural Modulus	psi	D790	980,000
Compressive Strength	psi	D695	40,000
Compressive Modulus	psi	D695	700,000
Hardness Rockwell	-	D785	M125 (E90)
Izod Impact Notched	ft-lb/in	D256	1.0

Thermal Properties	Units	Test	5030
Coefficient of Linear Thermal Expansion	X 10 ⁻⁵ in./in./°F	D696 E831	- 0.9 x 10 ⁻⁵ F ⁻¹
Heat Deflection Temperature	@264 psi °F/°C	D648	532 / 278
Melting Temperature	°F/°C	D3418	527 / 275
Max. Operating Temperature	°F/°C	-	-
Thermal Conductivity	BTU- in/ft ² -hr.-°F x 10 ⁻⁴ cal/cm-sec-°C	C177	- -
Flammability Rating	-	UL94	-

Electrical Properties	Units	Test	5030
Dielectric Strength	(V/mil) short time, 1/8" thick	D149	-
Dielectric Constant	@1 MHz	D150	-
Dissipation Factor	@1 MHz	D150	-
Volume Resistivity	Ohm-cm @50% RH	D257	-

**The information provided in this table is a compilation of publicly available data. This information is provided for comparison purposes only, and is not intended to be warrantable. Further, *Technical Products, Inc.* disclaims any and all liability from errors, in accuracies, or omissions.