



Typical Properties of

Torlon® 4301

Polyamide-imide with Graphite and PTFE Fillers

Process: Extruded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.45
Tensile Strength	D638	psi	15,000
Tensile Modulus	D638	psi	900,000
Elongation	D638	%	3
Flexural Strength	D790	psi	23,000
Flexural Modulus	D790	psi	800,000
Compressive Strength	D695	psi	22,000
Compressive Modulus	D695	psi	950,000
Hardness, Rockwell	D785	--	E70 (M106)
Hardness Durometer	--	--	N / A
Izod Impact (notched)	D256	ft. lb of notch	0.8
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.2
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	1.4 x 10 ⁻⁵
Continuous Use Temperature	--	°F	500
Heat Deflection Temperature	D648	°F	534
Glass Transition Temperature	D3418	°F	527
Melting Point	D3418	°F	N / A
Thermal Conductivity	E1530-11	BTU in/hr ft ² °F	3.7
Dielectric Strength	D149	Volts/mil	N / A
Surface Resistivity	EOS/ESD 511.11	ohm/square	>10 ¹³
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.4
Water Absorption, Saturation	D570	% by weight	1.5
Limiting PV (4:1 Safety Factor)	--	--	22,500
K-Factor	--	--	10
FDA Compliance	--	--	No

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.
All values at 73 F unless otherwise stated.