



Typical Properties of

Torlon® 4645

Polyamide-imide with Proprietary fillers

Process: Extruded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.57
Tensile Strength	D638	psi	16,530
Tensile Modulus	D638	psi	2,600,000
Elongation	D638	%	0.8
Flexural Strength	D790	psi	22,300
Flexural Modulus	D790	psi	1,800,000
Compressive Strength	D695	psi	22,750
Compressive Modulus	D695	psi	N / A
Hardness, Rockwell	D785	--	N / A
Hardness Durometer	--	--	N / A
Izod Impact (notched)	D256	ft. lb of notch	0.9
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.09
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	1.0 x 10 ⁻⁵
Continuous Use Temperature	--	°F	500
Heat Deflection Temperature	D648	°F	538
Glass Transition Temperature	D3418	°F	527
Melting Point	D3418	°F	N / A
Thermal Conductivity	E1530-11	BTU in/hr ft ² °F	N / A
Dielectric Strength	D149	Volts/mil	N / A
Surface Resistivity	EOS/ESD 511.11	ohm/square	N / A
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.25
Water Absorption, Saturation	D570	% by weight	1.6
Limiting PV (4:1 Safety Factor)	--	--	N / A
K-Factor	--	--	N / A
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.