



Typical Properties of HolograPEEK® XL Tubes

ASTM or UL test	Property	HolograPEEK® XL
D792	Density (lb/in ³) (g/cm ³)	0.047 1.31
D570	Water Absorption, 24 hrs (%)	0.10
D638	Tensile Strength (psi)	16,000
D638	Tensile Modulus (psi)	500,000
D638	Tensile Elongation at Break (%)	20
D790	Flexural Strength (psi)	25,000
D790	Flexural Modulus (psi)	600,000
D695	Compressive Strength (psi)	20,000
D695	Compressive Modulus (psi)	500,000
D785	Hardness, Rockwell	M100 (R126)
D256	IZOD Impact Notched (ft-lb/in)	1.0
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	2.6
D648	Heat Deflection Temp (°F / °C) at 264 psi	320 / 160
D3418	Melting Temp (°F / °C)	644 / 340
-	Max Operating Temp (°F / °C)	480 / 249
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	1.75 6.03
UL94	Flammability Rating	V-0
D149	Dielectric Strength (V/mil) short time, 1/8" thick	480
D150	Dielectric Constant at 1 MHz	3.30
D150	Dissipation Factor at 1 MHz	0.003
D257	Volume Resistivity (ohm-cm) at 50% RH	4.9 x 10 ¹⁶

The information contained herein are typical values intended for reference and comparison purposes only.

This data should not be used as a basis for design specifications or quality control.

All values at 73°F (23°C) unless otherwise noted.

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