



Ertalyte PET-P

(PolyEthylene Terephthalate Polyester)

TYPICAL PROPERTIES of ERTALYTE

ASTM or UL test	Property	Ertalyte ® unfilled	Ertalyte ® TX lubricated
PHYSICAL			
D792	Density (lb/in ³) (g/cm ³)	0.051 1.41	0.052 1.44
D570	Water Absorption, 24 hrs (%)	0.07	0.06
MECHANICAL			
D638	Tensile Strength (psi)	12,400	11,000
D638	Tensile Modulus (psi)	460,000	500,000
D638	Tensile Elongation at Break (%)	20	5
D790	Flexural Strength (psi)	18,000	16,000
D790	Flexural Modulus (psi)	490,000	460,000
D695	Compressive Strength (psi)	15,000	15,250
D695	Compressive Modulus (psi)	420,000	400,000
D785	Hardness, Rockwell	M93 / R125	M94
D256	IZOD Notched Impact (ft-lb/in)	0.5	0.4
THERMAL			
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	3.30	4.50
D648	Heat Deflection Temp (°F / °C) at 264 psi	240 / 116	180 / 82
D3418	Melting Temperature (°F / °C)	491 / 255	491 / 255
-	Max Operating Temp (°F / °C)	210 / 99	210 / 99
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	2.0 6.9	1.9 6.6
UL94	Flammability Rating	HB	HB
ELECTRICAL			
D149	Dielectric Strength (V/mil) short time, 1/8" thick	385	-
D150	Dielectric Constant at 60 Hz	3.4	-
D150	Dissipation Factor at 60 Hz	-	-
D257	Volume Resistivity (ohm-cm) at 50% RH	> 10 ¹³	> 10 ¹³

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets.

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