

## Ertalyte® TX

Ertalyte TX is an extruded form of polyethylene terephthalate (PET-P) with a uniformly dispersed solid lubricant, providing superior wear resistance to most lubricated acetals and polyesters. In addition to having excellent wear properties, this material has excellent dimensional stability and remains stiff at elevated temperatures. Ertalyte TX is FDA compliant.

Property	Method	Unit	Value
<b>Mechanical</b>			
Specific Gravity, 73°F	D792		1.44
Tensile Strength, 73°F	D638	psi	11,000
Tensile Modulus of Elasticity, 73°F	D638	psi	500,000
Elongation, 73°F	D638	%	5.0
Flexural Strength, 73°F	D790	psi	14,000
Flexural Modulus, 73°F	D790	psi	360,000
Shear Strength, 73°F	D732	psi	8,500
Compressive Strength, 10% Def., 73°F	D695	psi	15,250
Compressive Modulus of Elasticity, 73°F	D695	psi	400,000
Hardness, Rockwell, Scale as noted, 73°F	D785		M94
Izod Impact (notched), 73°F	D256 Type A	ft-lb/in	0.4
Coefficient of Friction (Dry vs Steel) Dynamic	PTM55007		0.19
Limiting PV, 73°F	PTM55007	psi-fpm	6,000
k (wear) factor	PTM55010		35
<b>Thermal</b>			
Coefficient of linear Thermal Expansion	E-831(TMA)	in/in/°F	4.50 x 10 <sup>-5</sup>
Deflection Temperature 264 psi	D648	°F	180
Melting Point (crystalline) peak	D3418	°F	491
Continuous Service Temperature in Air (Max.)		°F	210
Thermal Conductivity		BTU-in/(hr-ft <sup>2</sup> °F)	1.90
<b>Electrical</b>			
Surface Resistivity	EOS/ESD S11.11	Ohm/square	>10 <sup>13</sup>

**For additional information about our products call 1-800-366-0300 or via e-mail at [select.support@qplas.com](mailto:select.support@qplas.com)**

All statements, technical information and recommendations contained in this publication are presented good faith, based upon tests believed to be reliable and practical field experience. The reader is cautioned, however, that Quadrant EPP cannot guarantee the accuracy or completeness of this information, and it is the customer's responsibility to determine the suitability of Quadrant EPP's products in any given application. Fluorosint, Nylatron, Ertalyte, Acetron, MC and Techtron are all registered trademarks of Quadrant EPP. Delrin and Teflon are registered trademarks of E. I. DuPont, Torlon - Solvay Advanced Polymers, Ultem-GE Plastics.

# Product Data Sheet



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Property	Method	Unit	Value
<b>Chemical</b>			
Acids, Weak, 73°F/23°C, acetic acid, dilute hydrochloric or sulfuric			Acceptable Service
Acids, Strong, 73°F/23°C, conc. hydrochloric or sulfuric			Limited Service
Alkalies, Weak, 73°F/23°C, dilute ammonia or sodium hydroxide			Acceptable Service
Alkalies, Strong, 73°F/23°C, conc. ammonia or sodium hydroxide			Unacceptable
Hydrocarbons-Aromatic, 73°F/23°C, benzene, toluene			Acceptable Service
Hydrocarbons-Aliphatic, 73°F/23°C, gasoline, hexane, grease			Acceptable Service
Ketones, Esters, 73°F/23°C, acetone, methyl ethyl ketone			Limited Service
Ethers, 73°F/23°C, diethyl ether, tetrahydrofuran			Acceptable Service
Chlorinated Solvents, 73°F/23°C, methylene chloride, chloroform			Unacceptable
Alcohols, 73°F/23°C, methanol, ethanol, anti-freeze			Acceptable Service
Inorganic Salt Solutions, 73°F/23°C, sodium chloride, potassium cyanate			Acceptable Service
Continuous Sunlight, 73°F/23°C			Limited Service
<b>Miscellaneous</b>			
Water Absorption Immersion, 24 hr	D570	%	0.06
Water Absorption Immersion, Sat.	D570	%	0.47
Ionic Impurities - Na (Sodium)	Total Digestion	ppm	2.00
Ionic Impurities - K (Potassium)	Total Digestion	ppm	12.00
Ionic Impurities - Fe (Iron)	Total Digestion	ppm	8.00
<b>Compliance</b>			
UL94			HB
FDA			Yes
USDA			Yes
3A-Dairy			Yes

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