

## DATA SHEET

### ERTALYTE TX PET-P

PTFE Filled Polyester (Polyethylene Terephthalate)

PROPERTY	UNITS	VALUE
<b>MECHANICAL</b>		
Specific Gravity	-	1.44
Tensile Strength	psi	11,000
Tensile Modulus	psi	500,000
Elongation (at break)	%	5
Flexural Strength	psi	16,000
Flexural Modulus	psi	460,000
Compressive Strength	psi	15,250
Hardness, Rockwell	-	M94
Coefficient of Friction (Dry vs. Steel)	-	.19
Limiting PV (with 4:1 safety factor)	psi x fpm	6,000
<b>THERMAL</b>		
Coefficient of Linear Thermal Expansion	in/in/F	$4.50 \times 10^{-5}$
Heat Deflection Temperature (264 psi)	F	180
Glass Transition Temperature	F	180
Continuous Service Temperature	F	210
Thermal Conductivity	BTU/in/hr.ft.F	1.9
<b>ELECTRICAL</b>		
Dielectric Strength	volts/mil	--
Volume Resistivity	ohm-cm	$>10^{13}$
<b>OTHER</b>		
Water Absorption, Immersion, 24 hrs.	% by wt.	.06
Water Absorption, Immersion, Saturation	% by wt.	.47

#### **ENGINEERING NOTES:**

- \* FDA, USDA compliant
- \* Superior abrasion resistance (SSI - 65)
- \* Excellent chemical resistance
- \* Excellent slip-stick performance