

DATA SHEET

PET-P

Unfilled Polyester (Polyethylene Terephthalate)

PROPERTY	UNITS	VALUE
MECHANICAL		
Specific Gravity	-	1.41
Tensile Strength	psi	12,400
Tensile Modulus	psi	460,000
Elongation (at break)	%	20
Flexural Strength	psi	18,000
Flexural Modulus	psi	490,000
Compressive Strength	psi	15,000
Hardness, Rockwell	-	M93
Coefficient of Friction (Dry vs. Steel)	-	.20
Limiting PV (with 4:1 safety factor)	psi x fpm	3,400
THERMAL		
Coefficient of Linear Thermal Expansion	in/in/F	3.30×10^{-5}
Heat Deflection Temperature (264 psi)	F	240
Glass Transition Temperature	F	180
Continuous Service Temperature	F	210
Thermal Conductivity	BTU/in/hr.ft.F	2.0
ELECTRICAL		
Dielectric Strength	volts/mil	385
Volume Resistivity	ohm-cm	5.5×10^{14}
OTHER		
Water Absorption, Immersion, 24 hrs.	% by wt.	.07
Water Absorption, Immersion, Saturation	% by wt.	.9

ENGINEERING NOTES:

- * FDA, USDA, 3-A DAIRY compliant
- * Superior abrasion resistance (SSI - 65)
- * Excellent chemical resistance
- * Non-staining
- * Notch sensitivity requires minimum radius