

DATA SHEET

LDPE

Low Density (100,000) Polyethylene

PROPERTY	UNITS	VALUE
MECHANICAL		
Specific Gravity	-	0.915
Tensile Strength	psi	1,900
Tensile Modulus	psi	26,000
Elongation (at break)	%	600
Flexural Strength	psi	--
Flexural Modulus	psi	21,000
Compressive Strength	psi	--
Hardness, Shore D	-	69
Coefficient of Friction (Dry vs. Steel)	-	--
Limiting PV (with 4:1 safety factor)	psi x fpm	200
THERMAL		
Coefficient of Linear Thermal Expansion	in/in/F	9.10×10^{-5}
Heat Deflection Temperature (264 psi)	F	97
Glass Transition Temperature	F	110
Continuous Service Temperature	F	140
Thermal Conductivity	BTU/in/hr.ft.F	--
ELECTRICAL		
Dielectric Strength	volts/mil	460
Volume Resistivity	ohm-cm	10^{15}
OTHER		
Water Absorption, Immersion, 24 hrs.	% by wt.	<.01
Water Absorption, Immersion, Saturation	% by wt.	<.01

ENGINEERING NOTES:

- * FDA, USDA compliant
- * Chemically inert
- * Formable