



TECHNICAL DATA SHEET LDPE

	Unit	Test method	LDPE
Physical properties			
Specific Gravity		D792	0.910 - 0.925
Specific volume	in ³ /lb	D792	30.4 - 29.9
Water absorption, 24h, 1/8" thick	%	D570	<0.01
Mechanical properties			
Tensile Strength	psi	D638	600 - 2,300
Elongation	%	D638	90 - 800
Tensile Modulus	10 ⁵ psi	D638	0.14 - 0.38
Flexural Modulus	10 ⁵ psi	D790	0.08 - 0.60
Impact Strength	Izod (ft-lb/in of notch)	D256	No break
Hardness	Rockwell R	D785	10
Thermal properties			
Thermal Conductivity	10 ⁴ cal-cm/sec-cm ² -°C	C177	8.0
Coefficient of thermal expansion	10 ⁻⁵ in/in- °F	D696	5.6 - 12.2
Deflection Temperature at 264psi	°F	D648	90 - 105
Deflection Temperature at 66psi			100-121
Electrical properties			
Dielectric strength, short time, 1/8" thick	V/mil	D149	460 - 700
Dielectric constant	At 1 kHz	D150	2.25 - 2.35
Dissipation factor	At 1 kHz	D150	0.0002
Volume resistivity	At 73°F, 50 % RH	D257	10 ¹⁵
Arc resistance	S	D495	135 - 160
Optical properties			
Refractive index	-	D542	1.51
Transmittance	%	D1003	4 - 50

Application

- Industrial bags and soft goods.
- Battery Jars.
- Large agricultural tanks and packing applications.
- Wire Insulation, Hot-melt Adhesives.
- Tote Boxes, shrink bundling.
- Medical Equipment.

Standard Options

SHEET: Natural – 2000mm x 1000mm & 1.5mm to 3mm thick.