

DATA SHEET

LD POLYETHYLENE OR LDPE

PHYSICAL		
SPECIFIC GRAVITY		.917 - .932
WATER ABSORPTION, 24 hr. (%)		<0.01
MECHANICAL		
TENSILE		
Strength, Yield (10 ³ psi) @ 73°F.		1.3 - 2.1
Elongation, Ultimate (%) @ 73°F.		100 - 650
Modulus, Yield (10 ³ psi) @ 73°F.		25 - 41
FLEXURAL		
Strength, (10 ³ psi) @ 73°F.		
Modulus, Yield (10 ³ psi) @ 73°F.		35 - 48
COMPRESSIVE STRENGTH		
2% Offset, (10 ³ psi)		
IMPACT STRENGTH		
Izod, Notched (ft. - lb./in.) @ 73°F.		No Break
HARDNESS		
COEFFICIENT OF STATIC FRICTION		D44 - 50
Against self		
Against steel		
THERMAL		
CONDUCTIVITY		
(BTU/hr/sq. ft./Degree F./in.)		
COEFF. OF THERMAL EXPANSION		
(10 ⁻⁵ /Degree F.)		
SPECIFIC HEAT		
(BTU/lb./Degree F.)		
HEAT DEFLECTION TEMP.		
(Degree F.)		
At 66 psi.		100 - 121
At 264 psi		90 - 105
MAX. CONTINUOUS TEMP. (F.°)		
ELECTRICAL		
VOLUME RESISTIVITY		
(Ohm/cm)		>10 ¹⁶
DIELECTRIC STRENGTH		
(V/Mil)		450 - 1000
DIELECTRIC CONSTANT		
At 60 HZ		2.25 - 2.35
At 1 MHZ		2.25 - 2.35
DISSIPATION FACTOR		
At 60 HZ		<0.0005
At 1 MHZ		<0.0005
ARC RESISTANCE (seconds)		135 - 160