

DATA SHEET

HD POLYETHYLENE OR HDPE

PHYSICAL

SPECIFIC GRAVITY	.952 - .965
WATER ABSORPTION, 24 hr. (%)	<0.01

MECHANICAL

TENSILE

Strength, Yield (10 ³ psi) @ 73°F.	3.8 - 4.8
Elongation, Ultimate (%) @ 73°F.	10 - 1200
Modulus, Yield (10 ³ psi) @ 73°F.	155 - 158

FLEXURAL

Strength, (10 ³ psi) @ 73°F.	
Modulus, Yield (10 ³ psi) @ 73°F.	145 - 225

COMPRESSIVE STRENGTH

2% Offset, (10³ psi)

IMPACT STRENGTH

Izod, Notched (ft. - lb./in.) @ 73°F. .5 - 20

HARDNESS

D66 - 73

COEFFICIENT OF STATIC FRICTION

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.

175 - 196

At 264 psi

MAX. CONTINUOUS TEMP. (F.°)

ELECTRICAL

VOLUME RESISTIVITY

(Ohm/cm)

10¹⁶

DIELECTRIC STRENGTH

(V/Mil)

450 - 500

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)



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