



HDPE XT10 N

<u>Resin Properties</u> ⁽¹⁾	<u>Typical Value</u>	<u>ASTM Method</u>
MFI 190°C/21.6 kg (HLMI), g/10 min	7.5	D 1238
Density, g/cm ³	0.949	D 792
Melting Point, °F	268	D 3417
<u>Mechanical Properties</u> ^{(1),(2)}		
Notched Izod Impact Strength, ft-lb/in	8	D 256, 1/8" specimen
Elongation @ Break, %	> 800	D-638, Type IV Specimen, 2 in/min
Tensile Strength at Yield, psi	>3,500	D 638, Type IV specimen, 2 in/min
Flexural Modulus @ 2% Strain, psi	150,000	D 790
PENT ⁽³⁾ , hrs	> 5,000	F 1473
<u>Thermal Properties</u> ^{(1),(2)}		
Vicat Softening Temperature, °F	255	D 1525
Brittleness Temperature, °F	-180	D 746
Heat Distortion Temperature, °F	172	D 648
Thermal Expansion, in/in/°C	1x10 ⁻⁴	D 696
<u>Pipe Properties</u> ⁽¹⁾		
Hydrostatic Design Basis, psi		
73°F	1,600	D 2837
140°F	1,000	
Minimum Required Strength (MRS), MPa	10	ISO 9080
Cell Classification	445574, 445576	D 3350
Pipe Test Category	C3	D 2239
Resistance to Rapid Crack Propagation (RCP), S4 ⁽⁵⁾ Critical Pressure (P _c), 0°C	> 12 bar (> 174 psi)	ISO 13477
Notched Pipe Test, hrs	> 500	ISO 13479

Polyethylene:

High Molecular Weight
Bimodal Pipe Resin
PPI TR4 designation
PE100 / PE4710 / PE3408

Characteristics

- Outstanding high temperature creep rupture strength
- Exceptional slow crack growth resistance
- Excellent resistance to rapid crack propagation
- NSF certified to D2513 (gas), CSA B137.4 (gas), CSA B137.1 (water) and CSA C448 (geothermal)
- NSF Standard 14/61 Certified
- FDA Compliant⁽⁴⁾

Applications

- Gas distribution
- Potable water
- Geothermal
- Industrial and mining
- Sewer and sewer relining
- Gas and oil gathering
- General pipe relining
- Pipe Coating

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(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
 (2) The data listed was determined on compression-molded specimens and may, therefore, vary from specimens taken from pipes.
 (3) Pennsylvania Notched Tensile Test (PENT)
 (4) Complies with 21 CFR § 177.1520, Para. (c) 2.1 and 2.2
 (5) Small-Scale Steady State (110 mm, SDR-11)



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