

TOTAL PETROCHEMICALS

TOTAL PETROCHEMICALS USA, INC.



TOTAL

**HDPE
XT10B**

<u>Resin Properties</u> ⁽¹⁾	<u>Typical Value</u>	<u>ASTM Method</u>
Melt Flow Index, g/10 min		D 1238
190°C/5 kg	0.2	
190°C/21.6 kg (HLMI)	7	
Density, g/cm ³	0.958	D 792
Melting Point Range, °F	266-270	D 3417
Carbon Black Content, %	2.5	D1603
<u>Mechanical Properties</u> ⁽¹⁾⁽²⁾		
Elongation @ Break, %	> 500	D-638, Type IV Specimen, 2 in/min
Tensile Strength at Yield, psi	3600	D 638, Type IV specimen, 2 in/min
Flexural Modulus @ 1% Strain, psi	160,000	D 790
PENT, hrs ⁽³⁾	>1000	F 1473
<u>Pipe Properties</u>		
Hydrostatic Design Basis (psi)		D 2837
73°F (23°C)	1600	
140°F (60°C)	1000	
Minimum Required Strength (MPa)	10	ISO 9080/ISO 12162
Cell Classification	445574C, 445576C	D 3350
PPI Recommended Designation ⁴	PE 4710	PPI TR 4
Pipe Category	CEC	D 2513

Polyethylene:
 HDPE Bimodal PE4710
 Pipe Resin (Black)
Characteristics

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

Applications

- Gas distribution
- Potable water
- Molded fittings
- Gas and oil gathering
- Industrial & mining
- General pipe relining

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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 press molded specimens and may, therefore, vary from specimens taken from pipes.
 (3) Pennsylvania Notch Tensile Test (PENT)
 (4) HDPE XT10B listed in PPI TR4 under HDPE XT10N / BLK


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