TOTAL PETROCHEMICALS

TOTAL PETROCHEMICALS USA, INC.

HDPE XT25N

Resin Properties[1]	Typical Value	ASTM Method
MFI 190ºC/21.6 kg (HLMI), g/10 min	7.5	D 1238
Density, g/cm^3	0.949	D 792
Melting Point, ºF	268	D 3417
Mechanical Properties[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
TPI Certified PENT[3], hrs	> 2500	F 1473
Thermal Properties[1],[2]		
Vicat Softening Temperature, ºF	255	D 1525
Brittleness Temperature, ºF	-180	D 746
Heat Distortion Temperature, ºF	172	D 648
Thermal Expansion, in/in/ºC	$1^{X}10^{-4}$	D 696
Pipe Properties[1]		
Hydrostatic Design Basis (psi)		
73°F	1,600	D 2837
140°F	1,000	
Minimum Required Strength (MPa)	10	ISO 9080
Cell Classification	445574, 445576	D 3350
Pipe Test Category	CEC	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

(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)*

Polyethylene:

High Molecular Weight Bimodal Pipe Resin PPI TR4 designation PE4710 / PE100 for demanding installations. Every batch certified to meet 2500 hrs PENT according to ASTM F1473.

Characteristics

- Outstanding high temperature creep rupture strength
- Exceptional slow crack growth resistance certified as exceeding 2500 hrs PENT
- 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 / sewer relining
- Gas and oil gathering
- General pipe relining
- Pipe Coating

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