

Total HDPE XT10 N High Density Polyethylene - Pipe Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

Material Notes:

Polyethylene: High molecular weight, bimodal pipe resin. Characteristics: Outstanding high temperature creep rupture strength Exceptional slow crack growth resistance Excellent resistance to rapid crack growth 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 Applications: Gas distribution Potable water Geothermal Industrial mining Sewer and sewer relining Gas and oil gathering General pipe relining Pipe coating Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-HDPE-XT10-N-High-Density-Polyethylene-Pipe-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.949 g/cc	0.949 g/cc	ASTM D792
Melt Flow	7.5 g/10 min	7.5 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
PENT	>= 5000 hour	>= 5000 hour	ASTM D1473
Tensile Strength, Yield	>= 24.1 MPa	>= 3500 psi	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Flexural Modulus	1.03 GPa	150 ksi	ASTM D790
	@Strain 2.00 %	@Strain 2.00 %	
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Hydrostatic Design Basis	6.89 MPa	1000 psi	ASTM D2837
	@Temperature 60.0 °C	@Temperature 140 °F	
	11.0 MPa	1600 psi	ASTM D2837
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	131 °C	268 °F	ASTM D3417
Vicat Softening Point	124 °C	255 °F	ASTM D1525
Heat Distortion Temperature	77.8 °C	172 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Softening Temperature	130 °C	130 °F	ASTM D136
Descriptive Properties			
Cell Classification	445574, 445576		ASTM D3350
Minimum Required Strength	10 MPa		ISO 9080
Notched Pipe Test	>500 hrs		ISO 13479
Pipe Test Category	C3		ASTM D2239
Resistance to Rapid Crack Propagation	>12 bar		ISO 13477, S4, Critical Pressure, 0°C

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