Marlex® TRB-432

High Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

This high performance PE 4710/PE 100 rated bimodal HDPE, ethylene-hexene copolymer is tailored for the demanding requirements of pressure pipe applications that require: Excellent long-term hoop strength Superb resistance to slow crack growth Exceptional resistance to rapid crack propagation Outstanding low-temperature toughness Typical applications for TRB-432 include: Gas distribution pipe Potable water pipe Industrial pipe When blended with an approved black concentrate, the material meets or exceeds: ASTM D3350, class PE445574C and PE445576C NSF Standards 14 and 61 for potable water PPI designations PE 4710 HDPE and PE 100 HDPE(4) Additional information: Meets ASTM D4976 - PE 235 NSF 3rd party D2513 certified

NSF CSA B137.1 and B137.4 certified

General Information					
Features	Low Temperature Flexibility				
	Good cracking resistance	Good cracking resistance			
	Good strength				
Uses	Industrial application				
	Piping system				
Agency Ratings	ASTM D 3350 PE445574C				
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	NSF 14				
	NSF 61				
	PPI PE-100				
	PPI PE-4710				
Processing Method	Pipeline extrusion moldin	Pipeline extrusion molding			
Physical	Nominal Value	Unit	Test Method		
Density	0.949	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (MFR) (190°C/2.					
kg)	9.0	g/10 min	ASTM D1238		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength ¹ (Yield)	25.5	MPa	ASTM D638		
Tensile Elongation ² (Break)	> 700	%	ASTM D638		

Flexural Modulus - 2% Secant ³	965	MPa	ASTM D790
Notch Pipe Test - 4.6 MPa (80°C)	> 20.8	day	ISO 13479
Fundamentals of Hydrostatic Design			ASTM D2837
23°C	11.0	MPa	ASTM D2837
60°C	6.89	MPa	ASTM D2837
Minimum Required Strength	10.0	MPa	ISO 9080
PENT	> 2000	hr	ASTM F1473
Rapid Crack Propagation - S4 Critical Pressure (0°C) ⁴	> 1.20	MPa	ISO 13477
Additional Information	Nominal Value	Unit	Test Method
Nominal pipe properties were determined	l on pipe extruded from a pellet blend	of TRB-432 and an approved black conc	entrate.
NOTE			
1.	Type 4, 51mm/min		
2.	Type 4, 51mm/min		
3.	13 mm/min		

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