Marlex® H516HP

High Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

This high performance PE 4710 HDPE 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 Additional information: Meets ASTM D4976 - PE 235 NSF 3rd party D2513 certified NSF CSA B137.1 and B137.4 certified Typical applications for H516HP include: Gas distribution Potable water Industrial 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 and PE 100

General Information					
Features	Good Crack Resistance Good Strength				
	Low Temperature Toughness				
Uses	Industrial Applications				
	Piping	Piping			
Agency Ratings	ASTM D 3350 PE445574C				
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	ASTM D 4976-PE235				
	CSA B137.1				
	CSA B137.4				
	NSF Unspecified Rating				
Processing Method	Pipe Extrusion				
Physical	Nominal Value	Unit	Test Method		
Density	0.949	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (MFR) (190°C/2.16					
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
Hydrostatic Design Basis ⁴			ASTM D2837
23°C	11.0	MPa	
60°C	6.89	MPa	
Notch Pipe Test - 4.6 MPa (80°C) ⁵	> 20.8	day	ISO 13479
Minimum Required Strength ⁶	10.0	MPa	ISO 9080
PENT	> 2000	hr	ASTM F1473
Rapid Crack Propagation - S4 Critical Pressure (0°C) ⁷	> 1.20	MPa	ISO 13477
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		
3.	13 mm/min		
4.	blend of H516HP and an approved black concentrate		
5.	blend of H516HP and an approved black concentrate		
6.	blend of H516HP and an approved black concentrate		
7.	8" SDR 11 Pipe, blend of H516HP and an approved black concentrate		

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