

Marlex® HP132

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 HP132 include:
Gas distribution
Potable water
Industrial
When blended with an approved black concentrate, the material meets or exceeds:
ASTM D3350, class 445574C and 445576C
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		
Agency Ratings	ASTM D 3350 PE445574C		
	ASTM D 3350 PE445576C		
	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/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	9.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	25.5	MPa	ASTM D638

Tensile Elongation ² (Break, Compression Molded)	> 700	%	ASTM D638
Flexural Modulus - 2% Secant ³ (Compression Molded)	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 HP132 and an approved black concentrate |
| 5. | blend of HP132 and an approved black concentrate |
| 6. | blend of HP132 and an approved black concentrate |
| 7. | 8" SDR 11 Pipe, blend of HP132 and an approved black concentrate |

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