

Marlex® 9346

HIGH DENSITY POLYETHYLENE

This high performance PE 4710 HDPE is tailored for demanding pressure pipe applications that require:

- Good long-term hoop strength
- Very high melt strength
- Outstanding low-temperature toughness

This resin meets this specification:

- Meets ASTM D4976 – PE 235

Typical applications for 9346 include:

- Municipal, industrial, and mining pipe
- Oil and gas-gathering pipe

When blended with an approved black concentrate, this material meets or exceeds:

- ASTM D3350, class PE445574C
- NSF Standards 14 and 61 for potable water
- PPI designations PE 4710

NOMINAL PHYSICAL PROPERTIES ⁽¹⁾	English	SI	Method
Density	---	0.948 g/cm ³	ASTM D1505
Flow Rate (HLMI, 190/21.6)	---	9.0 g/10 min	ASTM D1238
Tensile Strength at Yield, 2 in/min, Type IV bar	>3,500 psi	>24 MPa	ASTM D638
Elongation at Break, 2 in/min, Type IV bar	800%	800%	ASTM D638
Flexural Modulus, 2% Secant - 16:1 span:depth, 0.5 in/min	130,000 psi	900 MPa	ASTM D790
PENT Slow Crack Growth	>500 h	>500 h	ASTM F1473
NOMINAL PIPE PROPERTIES ⁽²⁾	English	SI	Method
Hydrostatic Design Basis, 73°F (23°C)	1,600 psi	11 MPa	ASTM D2837
Hydrostatic Design Basis, 140°F (60°C)	1,000 psi	6.9 MPa	ASTM D2837

1. The nominal properties reported herein are typical of the product blended with an approved color concentrate except the density value which is representative of the natural resin. The nominal properties do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded. The physical properties were determined on compression-molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1 or ASTM F1473.
2. The nominal pipe properties were determined on pipe extruded from a pellet blend of 9346 and an approved black concentrate.

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