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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

## Marlex® HHM TR-480X

HIGH DENSITY POLYETHYLENE

**This high performance 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 these specifications:**

- ASTM D4976 - PE 235
- UL 94HB yellow card per UL file E54700

**Typical applications for HHM TR-480X 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 345464C and 345465C
- NSF Standards 14 and 61 for potable water
- PPI designations PE 3608 and PE 80
- CSA approved for natural gas and potable water

NOMINAL PHYSICAL PROPERTIES <sup>(1)</sup>	English	SI	Method
Density	---	0.945 g/cm <sup>3</sup>	ASTM D1505
Flow Rate (HLMI, 190/21.6)	---	8.0 g/10 min	ASTM D1238
Tensile Strength at Yield, 2 in/min, Type IV bar	3,200 psi	22 MPa	ASTM D638
Elongation at Break, 2 in/min, Type IV bar	800%	800%	ASTM D638
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min	140,000 psi	960 MPa	ASTM D790
Flexural Modulus, 2% Secant - 16:1 span:depth, 0.5 in/min	110,000 psi	760 MPa	ASTM D790
PENT Slow Crack Growth	>100 h	>100 h	ASTM F1473
Brittleness Temperature, Type A, Type I specimen	<-103°F	<-75°C	ASTM D746
NOMINAL PIPE PROPERTIES <sup>(2)</sup>	English	SI	Method
Hydrostatic Design Basis, 73°F (23°C)	1,600 psi	11.0 MPa	ASTM D2837
Hydrostatic Design Basis, 140°F (60°C)	800 psi	5.5 MPa	ASTM D2837
Minimum Required Strength	1,160 psi	8.0 MPa	ISO 9080

1. The nominal properties reported herein are typical of the product, but 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 HHM TR-480X and an approved black concentrate.

MSDS #240370

Revision Date December, 2005

Another quality product from



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