

Marlex® HHM TR-392 Polyethylene

MEDIUM DENSITY POLYETHYLENE (MDPE)

This high performance medium density polyethylene is an ethylene-hexene copolymer that is tailored for demanding applications that require:

- Excellent tensile elongation properties
- Outstanding resistance to slow-crack growth
- Very good thermal stability

This resin meets these specifications:

- ASTM D4976 - PE 225
- ASTM D3350, Cell Class PE234320E

Typical applications for HHM TR-392 include:

- Irrigation tubing and/or tape

Nominal Physical Properties ⁽¹⁾	English	SI	Method
Density	---	0.939 g/cm ³	ASTM D1505
Flow Rate (MI, 190 °C/2.16 kg)	---	0.16 g/10 min	ASTM D1238
Flow Rate (HLMI, 190 °C/21.6 kg)	---	20.0 g/10 min	ASTM D1238
Flexural Modulus , 2 % Secant - 16:1 span:depth, 0.5 in/min	90,000 psi	620 MPa	ASTM D790
Tensile Strength at Yield , 2 in/min, Type IV bar	2,800 psi	19 MPa	ASTM D638
Tensile Strength at Break , 2 in/min, Type IV bar	4,700 psi	32 MPa	ASTM D638
Tensile Elongation at Break , 2 in/min, Type IV bar	800 %	800 %	ASTM D638
ESCR , Condition B, (100 % Igepal), F ₅₀	> 1,000 h	> 1,000 h	ASTM D1693
Brittleness Temperature , Type A clamp, Type I specimen	< -103 °F	< -75 °C	ASTM D746
Thermal Stability	> 428 °F	> 220 °C	ASTM D3350

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.

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