



PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex[®] HHM TR-305

MEDIUM DENSITY POLYETHYLENE

This medium density, high molecular weight hexene copolymer is tailored for applications that require:

- Outstanding ESCR
- Broad fusion range
- Excellent melt strength
- Good processability

This resin meets these specifications:

- ASTM D4976 - PE 225
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H

Typical applications for HHM TR-305 include:

- Irrigation tubing

NOMINAL PHYSICAL PROPERTIES ⁽¹⁾	English	SI	Method
Density	---	0.937 g/cm ³	ASTM D1505
Melt Index, 190/2.16	---	0.28 g/10 min	ASTM D1238
Tensile Strength at Yield, 2 in/min, Type IV bar	2,800 psi	19 MPa	ASTM D638
Elongation at Break, 2 in/min, Type IV bar	750%	750%	ASTM D638
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min	115,000 psi	790 MPa	ASTM D790
ESCR, Condition B (10% Igepal), F ₅₀	>2,000 h	>2,000 h	ASTM D1693
ESCR, Condition C (100% Igepal), F ₅₀	>2,000 h	>2,000 h	ASTM D1693
SP-NCTL	>1,000 h	>1,000 h	ASTM D5397 (Appendix)
Durometer Hardness, Type D (Shore D)	60	60	ASTM D2240
Vicat Softening Temperature, Loading 1, Rate A	243°F	117°C	ASTM D1525
Heat Deflection Temperature, 66 psi, Method A	134°F	57°C	ASTM D648
Brittleness Temperature, Type A, Type I specimen	<-103°F	<-75°C	ASTM D746
Tensile Impact, Type S bar	200 ft•lb/in ²	420 kJ/m ²	ASTM D1822

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.

Revision Date May, 2007

Another quality product from



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