Chevron Phillips Chemical Company LP P.O. Box 4910 The Woodlands, TX 77387-4910 800.231.1212



PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

## Marlex® HXM 50100

HIGH DENSITY POLYETHYLENE

This extra high molecular weight, hexene copolymer is tailored for large blow-molded and thermoformed parts that require:

- Good melt strength
- Good rigidity
- Excellent ESCR
- Excellent low temperature impact strength

## Typical blow-molded applications for HXM 50100 include:

- 55-gallon shipping containers
- Fuel containers
- · Agricultural chemical tanks

## Typical thermoformed applications for HXM 50100 include:

- Pallets
- Automotive dunnage
- Truck bedliners
- Playground equipment

## This resin meets these specifications:

- ASTM D4976 PE 235
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H
- UL94HB yellow card per UL file E54700
- NSF Standards 14 and 61 for potable water

NOMINAL PHYSICAL PROPERTIES <sup>(1)</sup>	English	. SI	Method
Density		0.948 g/cm <sup>3</sup>	ASTM D1505
Flow Rate (HLMI, 190/21.6)		10.0 g/10 min	ASTM D1238
Tensile Strength at Yield, 2 in/min, Type IV bar	3,600 psi	25 MPa	ASTM D638
Elongation at Break, 2 in/min, Type IV bar	700%	700%	ASTM D638
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min	175,000 psi	1,200 MPa	ASTM D790
ESCR, Condition A (100% Igepal), F50	>600 h	>600 h	ASTM D1693
ESCR, Condition B (100% Igepal), F50	>600 h	>600 h	ASTM D1693
Durometer Hardness, Type D (Shore D)	68	68	ASTM D2240
Vicat Softening Temperature, Loading 1, Rate A	258°F	126°C	ASTM D1525
Heat Deflection Temperature, 66 psi, Method A	173°F	78°C	ASTM D648
Brittleness Temperature, Type A, Type I specimen	<-103°F	<-75°C	ASTM D746
Tensile Impact, Type S bar	90 ft•lb/in <sup>2</sup>	190 kJ/m <sup>2</sup>	ASTM D1822

<sup>1.</sup> 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.

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Chevron
Phillips
Chemical Company LP
The Woodlands, Texas

Another quality product from

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