



P.H.

JW

Nominal Physical Properties of Marlex® HXM 50100

PROPERTIES*	ASTM	UNIT	VALUE
Density	D1505	g/cc	0.950
Melt Index Condition 190/21.6	D1238	g/10 min	10
ESCR, Condition A, F ₅₀ Condition B	D1693	h	>600 >600
Tensile Yield Strength 50 mm per min.	D638 Type IV	MPa	26
Ultimate Elongation 50 mm per min	D638 Type IV	%	>600
Brittleness Temperature	D746	°C	<-18
Flexural Modulus	D790	MPa	1206
Shore Hardness D	D2240	-	64
Bottles			
Bottle ESCR 60°C, F ₅₀ **		h	>700
Thermofforming			
Sheet sag***		cm	8.13

* Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D1928.

** Test conditions: 295 ml, 23g bottle, 10% lit. Orvus K Detergent.

*** 0.61m x 1.22m x 3.2mm thick blank heated to forming temperature.

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.

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**APPLICATION
SPECIFIC
PLASTICS** 


Marlex*

**POLYETHYLENE
DATA SHEET**

Marlex. HXM 50100

Extra High Molecular Weight Hexene Copolymer

DENSITY: 0.950

MELT INDEX:  10 (HLMI)

CUSTOMER BENEFITS

An excellent balance of stress cracking resistance, stiffness and melt strength make this resin an ideal candidate for large blow molded items and thermoformed parts

This resin has...

... produces molded parts with

- Good melt strength
- Excellent stress cracking resistance
- Good rigidity
- Excellent impact strength even at low temperatures

SUGGESTED APPLICATIONS

Blow molding items such as

- 200 L Shipping containers
- Gasoline tanks
- Agricultural chemical tanks

and extruded items such as

- Pallets
- Cattle feeders
- Large formed parts
- Boats

PROCESSING RECOMMENDATIONS

Maintain these conditions for optimum properties...

- Blow molding stock temperature 190 - 220°C
- Extrusion melt temperature 195 - 220°C
- Thermoforming surface temperature 170 - 180°C

SPECIFICATION DATA

This resin meets these important requirements

- ASTM D1248 - Type III Class A, Category 5
- FDA regulation 177.1520. Suitable for food packaging applications.



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