

Pakro Kimya Dış Ticaret A.Ş.

Vİstoç Ticaret Merkezi Aktem Plaza Kat:5 Daire:33 Bağcılar/İstanbul





POLYETHYLENE DATA SHEET

Marlex[®] HXM 50100

Extra High Molecular Weight Hexene Copolymer

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...

...and produces molded parts with...

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

SUGGESTED APPLICATIONS

Blow-molded items such as...

and extruded items such as...

- 55-gallon shipping containers
- Gasoline tanks
- Agricultural chemical tanks
- Pallets
 - Cattle feeders
 - · Large formed parts
 - Boats

PROCESSING RECOMMENDATIONS

Maintain these conditions for optimum part quality...

Blow Molding Stock Temperature

Extrusion Melt Temperature

Thermoforming Surface Temperature

SPECIFICATION DATA

Meets these important requirements...

- 450-515°F (232-268°C)
- 310-360°F (154-182°C)

370-450°F (188-232°C)

- ASTM D1248 Type III, Class A, Category 5
- ASTM D4976-89 PE 235
- FDA regulation 177.1520 suitable for food packaging application





POLYETHYLENE DATA SHEET

Nominal Physical Properties of Marlex[®] HXM 50100

	Test	English		SI	
Property*	Method	Unit	Value	Unit	Value
Density	D1505	lbs/ft ³	59	g/cc	0.949
HLMI, Condition 190/21.60	D1238	g/10 min	10	g/10 min	10
ESCR Condition A (100% Igepal), F_{50} Condition B (100% Igepal), F_{50}	D1693	h h	>600 >600	h h	>600 >600
Tensile Yield Strength 2" <i>(50 mm)</i> per min.	D638 Type IV	psi	3600	MPa	25
Ultimate Elongation 2 in <i>(50 mm)</i> per min.	D638 Type IV	%	>600	%	>600
Brittleness Temperature	D746	°F	<-131	°C	<-91
Flexural Modulus	D790	psi	170,000	MPa	1172
<i>Bottles</i> Bottle ESCR, 140°F (60°C), F ₅₀ **		h	>700	h	>700
<i>Thermoforming</i> Sheet Sag***		in	3-5	cm	8-13

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

**Test Conditions: 10 ounce, 23g bottle, 10% fill Orvus K Detergent.

***2 ft x 4ft x 125 mil (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.

September, 1996

This document reports accurate and reliable information to the best of our knowledge, but our suggestions and recommendations cannot be guaranteed because the conditions of use are beyond our control. Information presented herein is given without reference to any patent questions which may be encountered in the use thereof. Such questions should be investigated by those using this information. Chevron Phillips Chemical Company assumes no responsibility for the use of information presented herein and hereby disclaims all liability in regard to such use. For more information and technical assistance:

CHEVRON PHILLIPS CHEMICALS INTERNATIONAL NV Brusselsesteenweg 355 B – 3090 OVERIJSE

Tel: +32 2 689 12 11 Fax: +32 2 689 13 04 e-mail: pe_emea@cpchem.com http://www.cpchem.com/pe MEDICAL CAUTION – Do not use this Chevron Phillips Chemical material in medical applications involving permanent implantation in the human body or permanent contact with internal body fluids or tissues. Do not use this Chevron Phillips Chemical material in medical applications involving brief or temporary implantation in the human body or contact with internal body fluids or tissues unless the material has been provided directly from Chevron Phillips Chemical under a contract which expressly acknowledges the contemplated use. Chevron Phillips Chemical makes no representation, promise, express warranty concerning the suitability of this material for use in implantation in the human body or in contact with internal body fluids or tissues.