

Marlex[®] HXM 50100

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 applications include:

- 220L shipping containers
- Gasoline tanks
- Agricultural chemical tanks
- Pallets
- Automotive dunnage
- Truck bedliners and boats

This resin meets these specifications:

- ASTM D4976 – PE 235
- FDA Regulations 21CFR 177.1520.
Suitable for food packaging.

Nominal Physical Properties *	ASTM	Unit	Value
Density	D1505	g/cm ³	0.948
Melt Index, Condition 190°C/ 2.16 kg	D1238	g/10min	0.06
HLMI, Condition 190°C/21.6 kg	D1238	g/10min	10
ESCR			
Condition A, F ₅₀ (100% Igepal)	D1693	h	>600
Condition B, F ₅₀ (100% Igepal)	D1693	h	>600
Tensile Yield Strength, 50 mm/ min	D638 Type IV	MPa	26
Elongation at Break, 50 mm/ min	D638 Type IV	%	>600
Brittleness Temperature	D746	°C	<-75
Flexural Modulus, Tangent	D790	MPa	1170
Shore D Hardness	D2240	-	62

* 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.

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and its further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Qatar Chemical Company Ltd does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contact, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as any international laws which may be encountered in the use thereof. Such questions should be investigated by the user.

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