

## Marlex<sup>®</sup> HHM TR-144 Polyethylene

### HIGH DENSITY POLYETHYLENE (HDPE)

This high molecular weight, ethylene-hexene copolymer is tailored for blown film applications that require:

- Toughness and durability
- Good processability
- Good blending characteristics with HDPE HMW resins

Typical applications for HHM TR-144 include:

- T-shirt bags
- Multi-wall liners
- Trash bags

This resin meets these specifications:

- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per Table 2 of 21 CFR 176.170(c)
- (EU) No. 10/2011

For a safety data sheet (SDS), visit our site at

[www.saudipolymers.com](http://www.saudipolymers.com)

Nominal Resin Properties <sup>(1,2)</sup>	Value (SI Units)	Method
<b>Density</b>	0.946 g/cm <sup>3</sup>	ASTM D1505
<b>Flow Rate</b> (MI, 190 °C/2.16 kg)	0.18 g/10 min	ASTM D1238
<b>Flexural Modulus</b> , Tangent – 16:1 span:depth, 12.7 mm/min	1,150 MPa	ASTM D790
<b>ESCR</b> , Condition B (100 % Igepal), F <sub>50</sub>	> 1,000 h	ASTM D1693
<b>Brittleness Temperature</b> , Type A clamp, Type I specimen	< -75 °C	ASTM D746
Nominal Blown Film Properties at 0.025 mm <sup>(1,3)</sup>	Value (SI Units)	Method
<b>Dart Drop</b> (66 cm)	90 g	ASTM D1709
<b>Elmendorf Tear MD</b>	19 g	ASTM D1922
<b>Elmendorf Tear TD</b>	270 g	ASTM D1922
<b>Tensile Strength at Yield MD</b> , 50.8 mm/min	24 MPa	ASTM D882
<b>Tensile Strength at Yield TD</b> , 50.8 mm/min	26 MPa	ASTM D882
<b>Tensile Elongation at Break MD</b> , 50.8 mm/min	480 %	ASTM D882
<b>Tensile Elongation at Break TD</b> , 50.8 mm/min	640 %	ASTM D882

1. The nominal properties reported herein are typical of the products, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded.
2. The physical properties were determined on compression moulded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.
3. Based on 0.025 mm film produced at 4:1 blow-up ratio.

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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 is 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. Saudi Polymers Company 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 contract, 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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