

## Marlex® 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

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

<sup>1.</sup> 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.

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<sup>2.</sup> The physical properties were determined on compression moulded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

<sup>3.</sup> Based on 0.025 mm film produced at 4:1 blow-up ratio.