

# Marlex® HHM TR-144

High Density Polyethylene

Saudi Polymers Company

## Message:

This high molecular weight, 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

General Information			
Features	High molecular weight Copolymer hexene comonomer Workability, good Durability Good toughness Compliance of Food Exposure		
Uses	Films Lining Bags		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.18	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus - Tangent (Compression Molded)	1150	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Strength <sup>1</sup>			ASTM D882

MD: Yield, 25 µm, blown film	24.0	MPa	ASTM D882
TD: Yield, 25 µm, blown film	26.0	MPa	ASTM D882
Tensile Elongation <sup>2</sup>			ASTM D882
MD: Broken, 25 µm, blown film	480	%	ASTM D882
TD: Broken, 25 µm, blown film	640	%	ASTM D882
Dart Drop Impact <sup>3</sup> (25 µm, Blown Film)	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	19	g	ASTM D1922
TD: 25 µm, blown film	270	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature <sup>4</sup>	< -75.0	°C	ASTM D746A

#### Additional Information

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

#### NOTE

1. 51 mm/min
2. 51 mm/min
3. 66 cm
4. Type I specimen

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