Marlex® HHM TR-131 Polyethylene

MEDIUM DENSITY POLYETHYLENE (MDPE)

This medium density polyethylene is an ethylene-hexene copolymer and is tailored for blown film applications that require:

- Soft feel
- Good toughness, impact strength and tear resistance
- Good blending characteristics with HDPE HMW resins

Typical applications for HHM TR-131 include:

- T-shirt bags
- Shopping bags
- 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)
- ASTM D4976 – PE 225
- (EU) No. 10/2011

For a safety data sheet (SDS), visit our site at www.saudipolymers.com

Nominal Resin Properties[1,2]	Value (SI Units)	Method
Density	0.938 g/cm^3	ASTM D1505
Flow Rate (MI, 190 °C/2.16 kg)	0.20 g/10 min	ASTM D1238
Flexural Modulus, Tangent – 16:1 span:depth, 12.7 mm/min	760 MPa	ASTM D790
ESCR, Condition B (100 % Igepal), F_{50}	> 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[1,3]	**Value (SI Units)**	**Method**
Dart Drop (66 cm)	165 g	ASTM D1709
Elmendorf Tear MD	30 g	ASTM D1922
Elmendorf Tear TD	350 g	ASTM D1922
Tensile Strength at Yield MD, 50.8 mm/min	21 MPa	ASTM D882
Tensile Strength at Yield TD, 50.8 mm/min	23 MPa	ASTM D882
Tensile Elongation at Break MD, 50.8 mm/min	500 %	ASTM D882
Tensile Elongation at Break TD, 50.8 mm/min	660 %	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 forspecification purposes. Values are rounded.
2. The physical properties were determined on compression moulded specimens that were prepared in accordance with Procedure C of ASTMD4703, Annex A1.
3. Based on 0.025 mm film produced at 4:1 blow-up ratio.

Revision Date: January, 2021