

Chevron Phillips Marlex® HHM TR-144 Polyethylene, Film Grade; HDPE (discontinued **)

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

Material Notes:

FDA approved.Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HHM-TR-144-Polyethylene-Film-Grade-HDPE-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.947 g/cc	0.0342 lb/in ³	ASTM D1505
Moisture Vapor Transmission	0.200 cc-mm/m ² -24hr-atm	0.508 cc-mil/100 in ² -24hr-atm	ASTM E96
Oxygen Transmission	59.0 cc-mm/m ² -24hr-atm	150 cc-mil/100 in ² -24hr-atm	ASTM D1434
Thickness	25.4 microns	1.00 mil	
Melt Flow	0.18 g/10 min	0.18 g/10 min	Condition 190/2.16; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	24.0 MPa	3480 psi	Blown film; ASTM D638
Film Tensile Strength at Yield, TD	26.0 MPa	3770 psi	Blown film; ASTM D638
Film Elongation at Break, MD	480 %	480 %	Blown film; ASTM D638
Film Elongation at Break, TD	640 %	640 %	Blown film; ASTM D638
Flexural Modulus	1.103 GPa	160.0 ksi	ASTM D790
Elmendorf Tear Strength MD	23 g	23 g	Blown Film; ASTM D1922
Elmendorf Tear Strength TD	330 g	330 g	Blown Film; ASTM D1922
Elmendorf Tear Strength, MD	0.906 g/micron	23.0 g/mil	1 mil; Blown Film; ASTM D1922
Elmendorf Tear Strength, TD	13.0 g/micron	330 g/mil	1 mil; Blown Film; ASTM D1922

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.33	2.33	ASTM D1531
	@Frequency 100000 Hz	@Frequency 100000 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
	@Thickness 3.17 mm	@Thickness 0.125 in	

Electrical Properties	Metric ⁰¹⁰	English ⁰¹⁰	Comments
Dissipation Factor	@Frequency 100000 Hz	@Frequency 100000 Hz	ASTM D1531

Processing Properties	Metric	English	Comments
Processing Temperature	193 - 216 °C	379 - 421 °F	Stock Temperature

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