

Chevron Phillips Marlex® HHM TR-166 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-166-Polyethylene-Film-Grade-HDPE-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.963 g/cc	0.0348 lb/in ³	ASTM D1505
Thickness	25.4 microns	1.00 mil	
Melt Flow	6.0 g/10 min	6.0 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	Cast Film; ASTM D638
Film Tensile Strength at Yield, TD	25.0 MPa	3630 psi	Cast Film; ASTM D638
Film Elongation at Break, MD	625 %	625 %	Cast film; ASTM D638
Film Elongation at Break, TD	700 %	700 %	Cast film; ASTM D638
Elmendorf Tear Strength MD	55 g	55 g	Cast Film; ASTM D1922
Elmendorf Tear Strength TD	65 g	65 g	Cast Film; ASTM D1922
Elmendorf Tear Strength, MD	2.17 g/micron	55.0 g/mil	1 mil; Cast Film; ASTM D1922
Elmendorf Tear Strength, TD	2.56 g/micron	65.0 g/mil	1 mil; Cast 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	
Dissipation Factor	>= 0.00010	>= 0.00010	ASTM D1531
	@Frequency 100000 Hz	@Frequency 100000 Hz	

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	193 - 232 °C Metric	379 - 450 °F English	Stock Temperature Comments
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