

## Chevron Phillips MarFlex® 9656 HDPE Blown Film Resin

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

**Material Notes:**

Resin Type: high density, linear polyethylene.Characteristics: copolymerization enhances film toughness, good drawdown, density level gives good machinability, blend well with LLDPEApplications: notion and millinery bags, multi-wall liners, coextrusionsRecommended processing conditions: Die Gap 0.030-0.050 in. Melt Temperature 400°F.Data provided by Chevron Phillips Chemical Company, LP.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chevron-Phillips-MarFlex-9656-HDPE-Blown-Film-Resin.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-MarFlex-9656-HDPE-Blown-Film-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 lb/in <sup>3</sup>	ASTM D1505
Moisture Vapor Transmission	0.150 cc-mm/m <sup>2</sup> -24hr-atm	0.381 cc-mil/100 in <sup>2</sup> -24hr-atm	ASTM F1249
Thickness	31.8 microns	1.25 mil	
Melt Flow	0.75 g/10 min	0.75 g/10 min	ASTM D1238E

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	580 %	580 %	ASTM D882
Film Elongation at Break, TD	500 %	500 %	ASTM D882
Elmendorf Tear Strength, MD	0.512 g/micron	13.0 g/mil	Notched; ASTM D1922
Elmendorf Tear Strength, TD	23.6 g/micron	600 g/mil	Notched; ASTM D1992
Dart Drop	1.97 g/micron	50.0 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	51.0 MPa	7400 psi	ASTM D882
Film Tensile Strength at Break, TD	17.9 MPa	2600 psi	ASTM D882
1% Secant Modulus, MD	841 MPa	122000 psi	ASTM D882
1% Secant Modulus, TD	1070 MPa	155000 psi	ASTM D882

Processing Properties	Metric	English	Comments
Processing Temperature	204 °C	399 °F	
Die Opening	0.0760 - 0.130 cm	0.0299 - 0.0512 in	

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