

## Chevron Phillips HiD® 9638 HDPE Sheeting and Blown Film Resin (discontinued \*\*)

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

### Material Notes:

Resin Type: Sheeting Resin for the Geomembrane Market; ASTM D 4976 Classification: PE 225, A 56507 Applications: Cast Geomembrane Applications, Notion and Millinery Bags, Heavy Duty Shipping Sacks, Insulation Bags, Multi-Wall Liners, Coextruded Film Structures Film properties below based on film thickness of 20 µm. Data provided by Chevron Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chevron-Phillips-HiD-9638-HDPE-Sheeting-and-Blown-Film-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-HiD-9638-HDPE-Sheeting-and-Blown-Film-Resin-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.939 g/cc	0.0339 lb/in <sup>3</sup>	ASTM D1505
Environmental Stress Crack Resistance	>= 2000 hour @Temperature 50.0 °C	>= 2000 hour @Temperature 122 °F	F<sub>50</sub>, Cond. B.; ASTM D1693
Melt Flow	0.25 g/10 min @Load 2.16 kg, Temperature 190 °C	0.25 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238
High Load Melt Index	21 g/10 min @Load 21.6 kg, Temperature 190 °C	21 g/10 min @Load 47.6 lb, Temperature 374 °F	High Load Melt Index; ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM D638
Tensile Strength, Yield	21.0 MPa	3050 psi	ASTM D638
Film Elongation at Break, MD	370 %	370 %	ASTM D882
	580 %	580 %	ASTM D882
Elongation at Break	>= 800 %	>= 800 %	Molded; ASTM D638
Flexural Modulus	0.660 GPa	95.7 ksi	3 pt. secant. ASTM D790
Secant Modulus, MD	0.410 GPa	59.5 ksi	ASTM D882
Secant Modulus, TD	0.480 GPa	69.6 ksi	ASTM D882
Elmendorf Tear Strength, MD	1.18 g/micron	30.0 g/mil	Notched; ASTM D1922
Elmendorf Tear Strength, TD	27.2 g/micron	690 g/mil	ASTM D1922
Dart Drop	7.50 g/micron	191 g/mil	F<sub>50</sub>; 1.5 in. dart/26 in. drop height; ASTM D 1709

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	28.0 MPa	4060 psi	ASTM D882
Film Tensile Strength at Break, TD	28.0 MPa	4060 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	121 °C	250 °F	ASTM D1525
Brittleness Temperature	<= -59.0 °C	<= -74.2 °F	ASTM D746

## Contact Songhan Plastic Technology Co.,Ltd.

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