

Chevron Phillips Marlex® HMN 55180 High Density Polyethylene (discontinued **)

Categories: [Polymer](#); [Thermoplastic](#); [Polyethylene \(PE\)](#); [High Density \(HDPE\)](#); [High Density Polyethylene \(HDPE\)](#), [Injection Molded](#)

Material High Density Polyethylene

Notes:

Customer Benefits: This resin is a narrow molecular weight distribution copolymer with easy processing characteristics and excellent toughness properties. This product displays excellent color, low odor, and processing stability. It is generally recommended for housewares, containers, and cap closure applications.

Applications: Tote bags, housewares, food containers

Property Comments: Physical Properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D1928.

Data provided by Chevron Phillips Chemical Company LP.


Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D1505
Melt Flow	18 g/10 min	18 g/10 min	Condition 190/2.16; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.5 MPa	3990 psi	ASTM D683
Elongation at Break	125 %	125 %	ASTM D638
Flexural Modulus	1.378 GPa	199.9 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -80.0 °C	<= -112 °F	ASTM D746

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Materials flagged as discontinued () are no longer part of the manufacturer's standard product line according to our latest information. These materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are no longer available remain in MatWeb to assist users in finding replacement materials.

Users of our Advanced Search (registration required) may exclude discontinued materials from search results.

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