

Chevron Phillips Marlex® HMN 4550 High Density Polyethylene (discontinued **)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

High Density Polyethylene Customer Benefits: This resin is a high density polyethylene copolymer with high stress crack resistance, outstanding impact strength, and good warpage resistance. It is used in agricultural and industrial containers, food handling containers, seating, and fuel tanks. **Applications:** Municipal waste containers, other I/M applications requiring high ESCR **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.

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http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HMN-4550-High-Density-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ASTM D1505
Melt Flow	5.0 g/10 min	5.0 g/10 min	Condition 190/2.16; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM D683
Elongation at Break	400 %	400 %	ASTM D638
Flexural Modulus	1.034 GPa	150.0 ksi	ASTM D790

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

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