

Chevron Phillips Marlex® HHM 5502-02 LW High Density Ethylene Hexene Copolymer (discontinued **)

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

Material Notes:

High Density Ethylene Hexene Copolymer with Synthetic Antistat
 Customer Benefits: The resin allows the blow molder to reduce inventory of resin types, because it can be used to package bleach and most benefits. Has excellent stiffness and exceptional ESCR.
 Applications: Bottles for bleach and detergents, industrial chemicals, industrial parts, pharmaceutical packaging.
 Processing Recommendations: Blow Molding
 Stock Temperature: Upper Limit: 204°C, Lower Limit: 171°C
 Extrusion Melt Temperature: Upper Limit: 216°C, Lower Limit: 194°C
 Thermoforming Surface Temperature: Upper Limit: 182°C, Lower Limit: 171°C
 Specification Data: ASTM D4976 - PE 235. ASTM D1248 - Type III, Class A, Category 5. FDA Regulation 177.1520. Suitable for food packaging applications. Suitable for Kosher food packaging. Listed in Drug Mater File. Sag Upper Limit: 18 cm, Lower Limit: 13 cm; 2 ft. X 4ft. X 125 mil thick blank heated to forming temperature. Data provided by Chevron Phillips Chemical Company, LP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HHM-5502-02-LW-High-Density-Ethylene-Hexene-Copolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	35 hour	35 hour	Condition B, F₅₀
ESCR 100% Igepal®	45 hour	45 hour	Condition A, F₅₀ CO-630; ASTM D1693
ESCR, Bottle	150 hour @Temperature 60.0 °C	150 hour @Temperature 140 °F	F₅₀
Melt Flow	0.30 g/10 min	0.30 g/10 min	Condition 190/2.16; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	2 in per min; ASTM D638 Type IV
Elongation at Break	>= 600 %	>= 600 %	2 in per min; ASTM D638 Type IV
Flexural Modulus	1.378 GPa	199.9 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -84.0 °C	<= -119 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	171 - 182 °C	340 - 360 °F	Thermoforming Surface

Processing Properties	171 - 204 °C Metric	340 - 399 °F English	Blow Molding Comments
	194 - 216 °C	381 - 421 °F	Extrusion

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