

Chevron Phillips Marlex® HHM 5502 BN High Density Ethylene Hexene-1 Copolymer

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

Material Notes:

High Density Ethylene Hexene-1 Copolymer
Customer Benefits: This resin allows the blow molder to reduce inventory of resin types, because it can be used to package a wide range of products. Has excellent stiffness and exceptional ESCR.
Applications: Bottles for pharmaceutical packaging, personal care products, bleach and detergents, industrial chemicals. Also for consumer goods and industrial parts.
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. FDA Regulation 177.1520. Suitable for food packaging.
Sag Upper Limit: 23 cm, Lower Limit: 18 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-BN-High-Density-Ethylene-Hexene-1-Copolymer.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	250 hour @Temperature 60.0 °C	250 hour @Temperature 140 °F	F₅₀
Melt Flow	0.35 g/10 min	0.35 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	<= -118 °C	<= -180 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	171 - 182 °C	340 - 360 °F	Thermoforming Surface
	171 - 204 °C	340 - 399 °F	Blow Molding

Processing Properties	194 - 216 °C Metric	381 - 421 °F English	Extrusion Comments
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