

Chevron Phillips Marlex® HHM 5502-04BN HDPE Hexene Copolymer (discontinued **)

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

Material Notes:

This resin allows the blow molder to reduce inventory of resin types, because it can be used to package bleach and most detergents. Meets ASTM D4976 - PE 235. ASTM D1248 - Type III, Class A, Category 5. FDA Regulation 177.1520, suitable for food packaging. Listed in drug master file. Characteristics: excellent stiffness, exceptional stress crack resistance Applications: bottles for bleach and detergent, industrial chemicals, industrial parts Data provided by Chevron Phillips Chemical Company, LP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HHM-5502-04BN-HDPE-Hexene-Copolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D1505
ESCR 100% Igepal®	35 hour	35 hour	Cond. B; F _{<sub>50</sub>} ; ASTM D1693
	45 hour	45 hour	Cond. A; 100% Igepal® CO-630; F _{<sub>50</sub>} ; ASTM D1693
	250 hour @Temperature 60.0 °C	250 hour @Temperature 140 °F	Bottle; F _{<sub>50</sub>} ; 10 ounce, 23-gram bottle, 10% fill, Joy Dishwashing liquid
High Load Melt Index	40 g/10 min @Load 21.6 kg, Temperature 190 °C	40 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.6 MPa	4000 psi	Type IV; 50 mm per min; ASTM D638
Elongation at Break	>= 600 %	>= 600 %	Type IV; 50 mm per min; ASTM D638
Flexural Modulus	1.38 GPa	200 ksi	0.5"/min crosshead speed; 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 Temp
	171 - 204 °C	340 - 399 °F	Blow Molding Stock
	194 - 216 °C	381 - 421 °F	Extrusion Stock

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