

Chevron Phillips Marlex® HHM 5202-02 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: For the blow molder who wants to stock one resin that will be suitable for most of his customers' packaging needs. Lightweight containers have excellent ESCR and good stiffness and impact strength. These same advantages will be obtained for thermoformed parts. Applications: Containers for bleach and detergents and chemicals. Molded or formed industrial housings, tanks, and shrouds. 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. Listed in Drug Master File. 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-5202-02-BN-High-Density-Ethylene-Hexene-1-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	50 hour	50 hour	Condition B, F _{>50</sub>}
ESCR 100% Igepal®	50 hour	50 hour	Condition A, F _{>50</sub> CO-630; ASTM D1693}
ESCR, Bottle	250 hour @Temperature 60.0 °C	250 hour @Temperature 140 °F	F _{>50</sub>}
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	27.0 MPa	3920 psi	2 in per min; ASTM D638 Type IV
Elongation at Break	>= 600 %	>= 600 %	2 in per min; ASTM D638 Type IV
Flexural Modulus	1.309 GPa	189.9 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	Metric	English	Comments
	194 - 216 °C	381 - 421 °F	Extrusion

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