

Chevron Phillips Marlex® HHM 5502LW Polyethylene; HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

High density polyethylene. This high molecular weight, hexene copolymer with synthetic antistatic agent is tailored for lightweight blow molded containers that: Require excellent stiffnessRequire exceptional processabilityAre durable and recyclable for sustainabilityApplications: Typical blow molded applications for HHM 5502LW include: Detergent bottlesHousehold and industrial chemical containersPharmaceuticalsInformation provided by PhillipsThis resin meets these specifications: ASTM D4976 – PE 235FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)Listed in the Drug Master File

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HHM-5502LW-Polyethylene-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D-1505
ESCR 100% Igepal®	30 hour	30 hour	Condition B, F50; ASTM D-1693
Melt Index of Compound	0.35 g/10 min @Load 2.16 kg, Temperature 190 °C	0.35 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.0 MPa	3920 psi	2 in/min, Type IV bar; ASTM D-638
Elongation at Break	500 %	500 %	2 in/min, Type IV bar; ASTM D-638
Flexural Modulus	1.37 GPa	199 ksi	Tangent - 16:1 span:depth, 0.5 in/min; ASTM D-790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -75.0 °C	<= -103 °F	Type A, Type I specimen; ASTM D-746

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