

Chevron Phillips Marlex® 9505H High Density Polyethylene

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

Material Notes:

This gas phase, high molecular weight, hexene copolymer with antistatic agent is tailored for lightweight blow molded containers that: Require outstanding ESCR Require excellent impact resistance Are durable and recyclable for sustainability Typical applications for 9505H include: Detergent bottles Household and industrial chemical containers Industrial containers / large parts This resin meets these specifications: ASTM D4976 - PE 235 FDA 21 CFR 177.1520(c) 3.2a, foods of > pH5, types I, IV-B, VI-B, VII-B and VIII, use conditions E through G per 21 CFR 176.170(c)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-9505H-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
ESCR 100% Igepal®	250 hour	250 hour	Cond. B; ASTM D1693
Melt Flow	0.34 g/10 min @Load 2.16 kg, Temperature 190 °C	0.34 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.0 MPa	3770 psi	2 in/min; Type IV bar; ASTM D638
Elongation at Break	500 %	500 %	2 in/min; Type IV bar; ASTM D638
Flexural Modulus	1.07 GPa	155 ksi	Tangent; 16:1 span:depth; 0.5 in/min; ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

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