

Chevron Phillips Marlex® 9518H High Density Polyethylene, Blow Molding

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

Material Notes:

This gas phase, high molecular weight, homopolymer is tailored for lightweight blow molded applications that: Require excellent stiffness to ESCR ratio Require good melt strength Are durable and recyclable for sustainability Typical blow molded applications for 9518H include: Household and industrial chemical containers Industrial containers / Large parts This resin meets these specifications: ASTM D4976 - PE 245 FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c) Information provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-9518H-High-Density-Polyethylene-Blow-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.962 g/cc	0.962 g/cc	ASTM D1505
ESCR 100% Igepal®	24 hour	24 hour	Condition B, F50; 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	32.0 MPa	4640 psi	2 in/min, Type IV bar; ASTM D638
Elongation at Break	>= 500 %	>= 500 %	2 in/min, Type IV bar; ASTM D638
Flexural Modulus	1.48 GPa	215 ksi	Tangent; ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -75.0 °C	<= -103 °F	Type A clamp, Type I Specimen; ASTM D746

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