

Chevron Phillips Marlex® C513 High density polyethylene (discontinued **)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Benefits: outstanding impact and creep resistance, outstanding ESCR, excellent processability
 Applications: intermediate bulk containers, agricultural containers
 Information provided by Chevron Phillips Chemical Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-C513-High-density-polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 2000 hour @Temperature 50.0 °C	>= 2000 hour @Temperature 122 °F	Condition A and Condition B; ASTM D 1693
High Load Melt Index	6.2 g/10 min @Load 21.6 kg, Temperature 190 °C	6.2 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	
Tensile Strength, Yield	23.7 MPa	3440 psi	ASTM D638 Type IV
Elongation at Break	>= 700 %	>= 700 %	ASTM D638 Type IV
Flexural Modulus	1.10 GPa	160 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	122.22 °C	252.00 °F	ASTM D1525
Brittleness Temperature	-70.0 °C	-94.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	193 - 221 °C	379 - 430 °F	Blow Molding

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