

Global B-5200 High Density Polyethylene

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

Material Notes:

Description-has excellent stiffness thus requires less material to make blow molding Applications-food containers, drinking bottles, medicine bottles, water containers Information provided by Global Polymers Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Global-B-5200-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.966 g/cc	0.0349 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	40 hour	40 hour	ASTM D1693
Melt Flow	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 D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Ultimate	34.3 MPa	4980 psi	ASTM D638
Tensile Strength, Yield	31.4 MPa	4550 psi	ASTM D638
Elongation at Break	500 %	500 %	ASTM D638
Flexural Modulus	1.08 GPa	156 ksi	Olsen Stiffness; ASTM D747
Izod Impact, Notched	4.90 J/cm	9.18 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	134 °C	273 °F	ASTM D2117
Vicat Softening Point	128 °C	262 °F	ASTM D1525

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