

Total 8183 HDPE, blow molding

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

Material Notes:

Applications: cosmetic bottles, pharmaceutical bottles, industrial product containers, chemical packaging, food packaging
Information provided provided by Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-8183-HDPE-blow-molding.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ASTM D 792
Environmental Stress Crack Resistance	200 hour	200 hour	ASTM D1693 cond. B 10% Igepal
Melt Flow	0.55 g/10 min	0.55 g/10 min	ISO 1133
	@Load 2.16 kg	@Load 4.76 lb	
	1.9 g/10 min	1.9 g/10 min	ASTM D 1238
	@Load 5.00 kg	@Load 11.0 lb	
High Load Melt Index	19 g/10 min	19 g/10 min	ISO 1133
	@Load 21.6 kg	@Load 47.6 lb	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	41	41	ASTM D 785
Hardness, Shore D	62	62	ASTM D 2240
Tensile Strength, Yield	>= 22.1 MPa	>= 3200 psi	ASTM D 638 type IV
Elongation at Break	>= 500 %	>= 500 %	ASTM D 638, type IV
Flexural Modulus	0.965 GPa	140 ksi	ASTM D 790

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 µm/m-°C	10.0 µin/in-°F	ASTM D 696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	129 °C	264 °F	ASTM D3417
Vicat Softening Point	125 °C	257 °F	ASTM D 1525

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