

Braskem GM7746C HDPE Blow Molding Polyethylene

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

Material Notes:

GM7746C is a high-density polyethylene specially developed for the manufacturing of blow molding fuel tanks. It has high molar mass and excellent mechanical properties. It also shows excellent tenacity, high resistance to stress cracking, and outstanding impact resistance. Its applications include: mono and multilayer fuel tanks for automobiles, small volume automotive reservoirs, and sheet extrusion for pickup rear protectors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-GM7746C-HDPE-Blow-Molding-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	ASTM-D792
ESCR 100% Igepal®	>= 1000 hour @Thickness 2.00 mm, Temperature 50.0 °C	>= 1000 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	4.5 g/10 min @Load 21.6 kg, Temperature 190 °C	4.5 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM-D2240
Tensile Strength at Break	42.0 MPa	6090 psi	ASTM-D638
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM-D638
Elongation at Break	880 %	880 %	ASTM-D638
Elongation at Yield	13 %	13 %	ASTM-D638
Flexural Modulus, 1% Secant	890 MPa	129000 psi	ASTM-D790
Izod Impact, Notched	7.60 J/cm	14.2 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ASTM-D648
Vicat Softening Point	126 °C @Load 1.02 kg	259 °F @Load 2.25 lb	ASTM-D1525

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