

Braskem BU004 Blow Molding High Density Polyethylene

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

Material Notes:

Containers for lubricating oils, alcohol, cosmetics and yogurts; Toys. Information provided by Braskem.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-BU004-Blow-Molding-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.966 g/cc	0.966 g/cc	ASTM D1505/D792
ESCR 100% Igepal®	32 hour @Temperature 50.0 °C	32 hour @Temperature 122 °F	h/50%f; compression molded 2 mm notched-plaques; ASTM D1683
ESCR 10% Igepal®	23 hour @Temperature 50.0 °C	23 hour @Temperature 122 °F	h/50%f; compression molded 2 mm notched-plaques; ASTM D1683
Melt Flow	0.38 g/10 min @Load 2.16 kg, Temperature 190 °C	0.38 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
	32 g/10 min @Load 21.6 kg, Temperature 190 °C	32 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength at Break	29.0 MPa	4210 psi	ASTM D638
Tensile Strength, Yield	33.0 MPa	4790 psi	ASTM D638
2% Secant Modulus	1.36 GPa	197 ksi	ASTM D790
Izod Impact, Notched	3.00 J/cm	5.62 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	79.0 °C	174 °F	ASTM D648
Vicat Softening Point	129 °C	264 °F	ASTM D1525

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