

SABIC BM6246LS High Density Polyethylene for Blow Molding

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

Material Notes:

Product Description: BM6246LS grade is a medium molecular weight High Density Polyethylene homopolymer for blow molding applications. It is primarily designed for imparting high rigidity, toughness and good processability. These unique properties offer the possibility to reduce weight at very good top load strength. **Typical Applications:** BM6246LS resin is primarily intended for blow molding bottles for the food and beverage industry. This grade is intended to meet customer specifications in respect to purity, healthiness and organoleptics. It can be used for milk, fruit juice and other dairy products. It can also be used in other thin-walled parts and profile extrusions. The product is not recommended for packaging environmentally active materials such as soaps, detergents, shampoos, etc. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-BM6246LS-High-Density-Polyethylene-for-Blow-Molding.php

Physical Properties	Metric	English	Comments
Density	0.961 g/cc	0.0347 lb/in ³	ASTM D1505
ESCR 100% Igepal®	24 hour	24 hour	F50; ASTM D1693B
ESCR 10% Igepal®	16 hour	16 hour	F50; ASTM D1693B
Melt Flow	0.70 g/10 min	0.70 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	2.8 g/10 min	2.8 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	46 g/10 min	46 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength at Break	18.0 MPa	2610 psi	ASTM D638
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM D638
Elongation at Break	500 %	500 %	ASTM D638
Flexural Strength	28.0 MPa	4060 psi	ASTM D790
Flexural Modulus	1.10 GPa	160 ksi	ASTM D790

1% Secant Modulus Mechanical Properties	≥ 1000 MPa Metric	≥ 145000 psi English	ASTM D638 Comments
Izod Impact, Notched	1.50 J/cm	2.81 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	127 °C	261 °F	ASTM D1525
Brittleness Temperature	≤ -75.0 °C	≤ -103 °F	ASTM D746

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 210 °C	374 - 410 °F	

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