

POLYMERS

SABIC[®] HDPE Blow molding BM6246LS

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 meets the latest end consumer expectations regarding purity, healthiness and organoleptics. It combines a high rigidity with superb processing performance, which offers potential for system cost reduction. The grade is very suited for the blow molding of mono as well as multi-layer bottles in several food markets, like fresh, pasteurized and ultra-heat treated milk, sauces, orange juice, functional drinks, probiotics and other "daily shot" drinks. The unique properties offer the possibility to reduce weight at very good top load strength.

TYPICAL DATA

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate			
@ 190°C & 2.16 kg load	g/10 min	0.7	ASTM D 1238
@ 190°C & 5 kg load		2.8	
@ 190°C & 21.6 kg load		46	
Density @ 23°C	Kg/m ³	961	ASTM D 1505
MECHANICAL PROPERTIES ⁽²⁾			
1% Secant Modulus	MPa	>1000	ASTM D 638
Tensile Strength @ Yield	MPa	30	ASTM D 638
Tensile Strength @ Break	MPa	18	ASTM D 638
Tensile Elongation @ Break	%	500	ASTM D 638
Flexural Strength	MPa	28	ASTM D 790
Flexural Modulus	MPa	1100	ASTM D 790
Izod Impact	J/m	150	ASTM D 256
Hardness (Shore D)	-	66	ASTM D 2240
ESCR (100% Igepal), F50	Hrs	24	ASTM D 1693B
ESCR (10% Igepal), F50	Hrs	16	ASTM D 1693B
THERMAL PROPERTIES			
Vicat Softening Point	°C	127	ASTM D 1525
Brittleness Temperature	°C	< -75	ASTM D 746

(1) Typical values: not to be construed as specification limits.

(2) Based on compression molded sheet.

Processing Conditions:

Typical processing conditions for BM6246LS are:

Barrel temperature: 170 - 200°C

Melt temperature: 180-210°C

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, Additional specific information can be requested via your local Sales Office.

STORAGE AND HANDLING

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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