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SABIC® HDPE B6246LS

HIGH DENSITY POLYETHYLENE

DESCRIPTION

SABIC® HDPE B6246LS is typically used in food and beverage packaging, offering good purity and organoleptics as well as recycle ability. It combines a high rigidity with very good processing performance, which offers potential for system cost reduction.
The grade is typically used 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 material properties offer the possibility to reduce weight at good top load strength.
This slip agent free grade is also typically used for the injection molding of caps & closures for carbonated soft drinks and sparkling water as well as high environmental stress crack resistant applications, like UN-pails and UN-caps & closures.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.50	dg/min	ISO 1133
at 190 °C and 5 kg	2.5	dg/min	ISO 1133
at 190 °C and 21.6 kg	46	dg/min	ISO 1133
Density [1]	962	kg/m³	ISO 1183
MECHANICAL PROPERTIES [1] [2]			
Tensile test [3] [4]			
stress at yield	29	MPa	ISO 527-2
stress at break	18	MPa	ISO 527-2
strain at break	1000	%	ISO 527-2
tensile modulus	1300	MPa	ISO 527-2
Flexural test			
Flexural modulus	1600	MPa	ISO 178
Flexural strength	31	MPa	ISO 178
Izod impact notched			
at 23 °C	13	kJ/m²	ISO 180/A
at -30 °C	7	kJ/m²	ISO 180/A
Hardness Shore D	64	-	ISO 868
ESCR (10% Igepal CO-630), F50	15	h	ASTM D1693B
THERMAL PROPERTIES			
Heat deflection temperature [1] [2]			
at 0.45 MPa (HDT/B)	89	°C	ISO 75-2
Vicat Softening Temperature [1] [2]			
at 10 N (VST/A)	129	°C	ISO 306
DSC test			
melting point	135	°C	ISO 11357-3
enthalpy change	225	J/g	ISO 11357-3