



SABIC® HDPE B5822M

PROVISIONAL TECHNICAL DATA SHEET HIGH DENSITY POLYETHYLENE

DESCRIPTION

HDPE B5822M is a High Density Polyethylene specially developed for small blow molded bottles. The material offers easy flow, higher stiffness, very good ESCR and sufficient impact strength. It exhibits a very good combination of high stiffness and high stress cracking resistance. HDPE B5822M demonstrates good organoleptic properties and has a broad molecular weight distribution.

TYPICAL APPLICATIONS

B5822M is specially designed for small blow molded bottles applications (<10 L) for packaging of consumer goods, Bottles for Industrial use, Jerry Cans, Sports, Leisure & Toys.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	0.35	g/10 min	ISO 1133
at 190°C and 5 kg	1.2	g/10 min	ISO 1133
at 190°C and 21.6 kg	22	g/cm ³	ISO 1133
Density			
@23°C	0.958	kg/m ³	ISO 1183
MECHANICAL PROPERTIES ⁽²⁾			
Tensile modulus	1350	MPa	ISO 527
Tensile Impact Strength at -30°C (Notched)	75	kJ/m ²	ISO 8256
Charpy Notched Impact Strength (-30°C, Type 1, Notch A)	6.5	kJ/m ²	ISO 179
FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C)	8	Hrs	ISO 16770
ESCR	150	h	ASTM D1693
Hardness Shore D	64	-	ISO 868