

# 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
<b>POLYMER PROPERTIES<sup>(1)</sup></b>			
<b>Melt Flow Rate (MFR)</b>			
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 <sup>3</sup>	ISO 1133
<b>Density</b>			
@23°C	0.958	kg/m <sup>3</sup>	ISO 1183
<b>MECHANICAL PROPERTIES<sup>(2)</sup></b>			
<b>Tensile modulus</b>	1350	MPa	ISO 527
<b>Tensile Impact Strength at -30°C (Notched)</b>	75	kJ/m <sup>2</sup>	ISO 8256
<b>Charpy Notched Impact Strength (-30°C, Type 1, Notch A)</b>	6.5	kJ/m <sup>2</sup>	ISO 179
<b>FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C)</b>	8	Hrs	ISO 16770
<b>ESCR</b>	150	h	ASTM D1693
<b>Hardness Shore D</b>	64	-	ISO 868