



# SABIC® HDPE B1054M

## PROVISIONAL TECHNICAL DATA SHEET HIGH DENSITY POLYETHYLENE

### DESCRIPTION

B1054M is a High Density Polyethylene specially developed for blow molding and jerry cans. The material offers high stiffness, good processability and excellent combination of stiffness and ESCR with good impact resistance.

### TYPICAL APPLICATIONS

B1054M is specially designed for standard jerry cans for the packaging of dangerous goods, Light weight jerry cans and UN approved jerry cans.

### 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 5 kg load	0.43	g/10 min	ISO 1133
at 190°C and 21.6 kg load	9.5	g/10 min	ISO 1133
FRR (MFR 21.6kg/MFR 5kg)	22	-	ISO 1133
<b>Density</b>			
@23°C	954	kg/m <sup>3</sup>	ISO 1183
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
<b>Tensile modulus</b>	1200	MPa	ISO 527
<b>Tensile impact test</b>			
Tensile Impact Strength (23°C, Notched)	145	kJ/m <sup>2</sup>	ISO 8256
Tensile Impact Strength at -30°C (Notched)	≥60	kJ/m <sup>2</sup>	ISO 8256
<b>Charpy impact strength @ -30°C</b>	7	kJ/m <sup>2</sup>	ISO 179/1eU
<b>FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C)</b>	>18	Hrs	ISO 16770