

B1054 (Provisional Data Sheet)

High Density Polyethylene for Blow molding

PRODUCT DESCRIPTION:

HDPE B1054 is high density polyethylene specially developed for large blow molding and jerry cans. The material offers high stiffness, good processability and excellent combination of stiffness/ESCR.

TYPICAL APPLICATIONS:

B1054 is specially designed for Standard jerry cans, Light weight jerry cans and UN approved jerry cans. The grade is intended for use in food contact application.

TYPICAL DATA:

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate			
@ 190°C & 5 kg load	g/10 min	0.45	ISO 1133
@ 190°C & 21.6 kg load		9.5	
Density @ 23°C	Kg/m ³	954	ISO 1183
FNCT (3.5 MPa, 2 % igepal BC/9, 80°C)	Hrs	40	ISO 16770
MECHANICAL PROPERTIES			
Tensile Modulus	MPa	1250	ISO 527-1,-2
Tensile Stress @ Yield	MPa	27	ISO 527-1,-2
Tensile Strain @ Yield	%	10	ISO 527-1,-2
Tensile Impact Strength @ -30°C (Notched)	kJ/m ²	90	ISO 8256
Hardness (Shore D)	-	62	ISO 868

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

Recommended processing temperature 180 - 220°C



FOOD REGULATION

B1054 is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific: information please contact SABIC local representative for certificate.

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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