

SABIC® HDPE B1054

HIGH DENSITY POLYETHYLENE

DESCRIPTION

B1054 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/ESCR.

TYPICAL APPLICATIONS

B1054 is specially designed for standard jerry cans, Light weight jerry cans and UN approved jerry cans. The grade can be used in food contact applications.

TYPICAL PROPERTY VALUES

Revision 20230113

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
at 190°C and 5 kg load	0.45	g/10 min	ISO 1133
at 190°C and 21.6 kg load	9.5	g/10 min	ISO 1133
Density at 23°C ⁽¹⁾	954	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES ⁽²⁾			
Tensile modulus	1250	MPa	ASTM D638
Tensile Stress at Yield	27	MPa	ISO 527-1/-2
Tensile Strain at Yield	10	%	ISO 527-1/-2
Tensile Impact Strength at -30°C (Notched)	90	kJ/m ²	ISO 8256
Hardness (Shore D)	62	-	ASTM D2240
FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C)	40	Hrs	ISO 16770

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

(2) Based on compression molded sheet. Compression moulding of test specimen according to ISO 1872-2 Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours

PROCESSING CONDITIONS

Recommended processing temperature: 180 - 220 °C

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.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY. NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

© 2024 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™

