

SABIC® HDPE B1254

HIGH DENSITY POLYETHYLENE

DESCRIPTION

B1254 is a High Density Polyethylene specially developed for blow molding and jerry cans. The material offers good processability and excellent combination of stiffness/ESCR.

TYPICAL APPLICATIONS

B1254 is specially designed for standard jerry cans for packaging of dangerous goods, food /non-food products. This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

Revision 20250625

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
@ 190°C & 21.6 kg load	13	g/10 min	ISO 1133
@ 190°C & 2.16 kg load	0.14	g/10 min	ISO 1133
Density			
@ 23°C	955	g/cm ³	ASTM D1505
MECHANICAL PROPERTIES ⁽²⁾			
Tensile strength			
@ Yield, 500mm/min, Type IV bar	30	MPa	ASTM D638
Tensile elongation at break			
10mm/min, Type IV bar	>902	%	ASTM D638
Flexural Modulus			
Tangent - 16:1 span:depth, 0.5 in/min	1047	MPa	ASTM D790
Izod Impact Strength			
@ 23°C	211	J/m	ASTM D-256
Durometer Hardness			
(Shore D)	58	-	ASTM D2240
ESCR (10% Igepal), F50	>1300	Hrs	ASTM D1693B
THERMAL PROPERTIES ⁽²⁾			
Vicat Softening Temperature			
Loading 1, Rate A	127	°C	ASTM D1525
Heat deflection temperature			
66 psi, Method A	76	°C	ASTM D648

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

(2) Based on compression molded specimens.

PROCESSING CONDITIONS

Recommended processing temperatures: 190 - 230°C

HEALTH AND SAFETY CONSIDERATIONS AND PRECAUTIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, Additional specific information can be requested via your local Sales Office.

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 NONINFRINGEMENT 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.