

# SABIC® HDPE B5206

HIGH DENSITY POLYETHYLENE

## DESCRIPTION

HDPE B5206 is high density polyethylene specially developed for large blow molding / Jerry cans. The material offers high stiffness, good processability and excellent combination of stiffness/ESCR.

## TYPICAL APPLICATIONS

B5206 is specially designed for Standard jerry cans, UN approved jerry cans and standard drums up to 60L. The grade is intended for food contact application.

## TYPICAL PROPERTY VALUES

Revision 20211207

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
@ 190°C & 21.6 kg load <sup>(1)</sup>	6.5	g/10 min	ISO 1133
<b>Density at 23°C</b>	952	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile modulus</b> <sup>(2)</sup>	1050	MPa	ASTM D638
<b>Tensile Strength at Yield</b>	26	MPa	ASTM D638
<b>Tensile Strain at Yield</b>	10	%	ISO 527-1/-2
<b>Charpy Notched Impact Strength (-30°C, Type 1, Notch A)</b>	36	kJ/m <sup>2</sup>	ISO 179
<b>FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C)</b>	50	Hrs	ISO 16770

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

(2) Based on compression molded sheet.

## 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.

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