

# SABIC® HDPE P5305N

HIGH DENSITY POLYETHYLENE FOR PIPE

## DESCRIPTION

HDPE P5305N is a multimodal high density polyethylene Natural grade specially developed for non-pressure pipe applications. The material offers high stiffness, toughness and excellent combination of stiffness/ESCR.

## TYPICAL APPLICATIONS

P5305N is specially designed for non-pressure pipe Applications. The grade is food contact approved.

## TYPICAL PROPERTY VALUES

Revision 20250224

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR) <sup>(1)</sup></b>			
@ 190°C & 21.6 kg load <sup>(1)</sup>	4.5	g/10 min	ISO 1133
<b>Density at 23°C</b>	953	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
<b>FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C)</b>	50	Hrs	ISO 16770
<b>Tensile modulus</b>	1050	MPa	ASTM D638
<b>Tensile Stress at Yield</b>	26	MPa	ISO 527-1/-2
<b>Tensile Strain at Yield</b>	10	%	ISO 527-1/-2
<b>Hardness (Shore D)</b>	62	-	ASTM D2240

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

## PROCESSING CONDITIONS

Recommended melt temperature 190 - 220°C

## FOOD REGULATION

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, available on the Internet ([www.SABIC.com](http://www.SABIC.com)). 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.

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