

# SABIC® HDPE P5307N

HIGH DENSITY POLYETHYLENE FOR PIPE

## DESCRIPTION

HDPE P5307N is a multimodal high density polyethylene Natural grade specially developed for non-pressure pipe applications. The material offers high stiffness, good processability and excellent combination of stiffness/ESCR.

## TYPICAL APPLICATIONS

P5307N is a natural specially designed for non-pressure pipe Applications. The grade is food contact approved.

## TYPICAL PROPERTY VALUES

Revision 20220721

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
@ 190°C & 21.6 kg load	8.0	g/10 min	ISO 1133
<b>Density at 23°C</b>	952	kg/m <sup>3</sup>	ASTM D1505
<b>FNCT (3.5 MPa, 2 % igepal BC/9, 80°C)</b>	>40	Hrs	ISO 16770
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile modulus</b>	1250	MPa	ASTM D638
<b>Tensile Stress at Yield</b>	27	MPa	ISO 527-1/-2
<b>Tensile Strain at Yield</b>	10	%	ISO 527-1/-2
<b>Tensile Impact Strength at -30°C (Notched)</b>	90	kJ/m <sup>2</sup>	ISO 8256
<b>Hardness (Shore D)</b>	62	-	ASTM D2240

## 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.

## 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.