

# SABIC® HDPE P6006AO

HIGH DENSITY POLYETHYLENE FOR PIPE

## DESCRIPTION

P6006AO is an orange compounded multimodal high density polyethylene classified as PE100 pressure gas pipe applications. it delivers exceptional processing performance

## TYPICAL APPLICATIONS

P6006AO is specially developed for gas pressure pipes.

## TYPICAL PROPERTY VALUES

Revision 20210510

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR) <sup>(1)</sup></b>			
@ 190°C & 5 kg load <sup>(1)</sup>	0.23	g/10 min	ISO 1133
@ 190°C & 21.6 kg load <sup>(1)</sup>	6.3	g/10 min	ISO 1133
<b>Density at 23°C <sup>(1)</sup></b>	950	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile Strength @ Yield <sup>(2)</sup></b>	23	MPa	ISO 527
<b>Tensile Elongation @ Break <sup>(2)</sup></b>	>350	-	ISO 527
<b>Tensile modulus <sup>(2)</sup></b>	>900	MPa	ISO 527
<b>Tensile creep Moduls @ 100h <sup>(3)</sup></b>	360	MPa	ISO 527-2
<b>Charpy Notched Impact Strength @ 23°C <sup>(3)</sup></b>	29	kJ/m <sup>2</sup>	ISO 179
<b>THERMAL PROPERTIES</b>			
<b>OIT (210°C)</b>	>60	Minutes	EN 728

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

(2) Test specimen according to ISO 527-2 type 1 BA, thickness 2mm with 50mm/min test speed.

(3) Based on compression molded sheet

## PROCESSING CONDITIONS

Typical processing conditions for P6006AO Melt temperature: 190-220°C

## FOOD REGULATION

P6006AO grade is suitable for Food contact application. Detailed information is provided in relevant material safety Datasheet and for additional specific information please contacts SABIC local representative for certificate.

## STORAGE AND HANDLING

Polyethylene material / compound 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 lead to quality deterioration 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.