

# SABIC® HDPE P6006AD

HIGH DENSITY POLYETHYLENE FOR PIPE

## DESCRIPTION

P6006AD is black compound high density polyethylene (classified as PE112) specially designed for pressure pipe applications. It delivers exceptional processing performance.

## TYPICAL APPLICATIONS

P6006AD is specially developed for pressure pipes for portable water, gas, sewage and other liquids.

## TYPICAL PROPERTY VALUES

Revision 20170725

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate <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>	6.4	g/10 min	ISO 1133
<b>Carbon black content <sup>(1)</sup></b>	2.25	%	ISO 6964
<b>Density at 23°C <sup>(1)</sup></b>	959	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile Strength at Yield <sup>(2)</sup></b>	23	MPa	ASTM D638
<b>Tensile Elongation @ Break <sup>(2)</sup></b>	> 350	MPa	ISO 527
<b>Tensile modulus <sup>(2)</sup></b>	900	MPa	ASTM D638
<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>	26	kJ/m <sup>2</sup>	ISO 179
<b>THERMAL PROPERTIES</b>			
<b>OIT (210°C)</b>	> 30	min	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 P6006AD Melt temperature: 190-220°C

## HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in 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 / 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

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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