

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

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CHEMISTRY THAT MATTERS™



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