

POLYMERS

SABIC[®] HDPE PIPE P6006LS

Provisional Data Sheet

PRODUCT DESCRIPTION

P6006LS is black compound high density polyethylene (class MRS 10 MPa) specially designed for pressure pipe low sagging (LS) applications. It delivers exceptional low sag performance for large-diameter pipes and pressure pipes with low standard dimension ratio (SDR).

TYPICAL APPLICATIONS

P6006LS is specially developed for pressure pipes for portable water, gas, sewage and other liquids.

TYPICAL DATA

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate			
@ 190°C & 5 kg load	g/10 min	0.23	ISO 1133
@ 190°C & 21.6 kg load		6.4	
Carbon Black Content	%	2.25	ISO 6964
Density @ 23°C	Kg/m ³	959	ISO 1183
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Strength @ Yield ⁽³⁾	MPa	23	ISO 527-2
Tensile Elongation @ break ⁽³⁾	%	>350	
Tensile Modulus ⁽³⁾	MPa	900	
Tensile Creep Modulus @ 100h	MPa	360	
Charpy Notched Impact Strength @ 23°C	KJ/m ²	26	ISO 179
THERMAL PROPERTIES			
Oxidation Induction Time (OIT) 210°C	Min	30	EN 728

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

(2) Based on compression molded sheet

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

Processing Conditions:

Typical processing conditions for P6006LS

Melt temperature: 190-220°C

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the 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.

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