

## POLYMERS

# SABIC<sup>®</sup> 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 <sup>(1)</sup>	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 <sup>3</sup>	959	ISO 1183
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
Tensile Strength @ Yield <sup>(3)</sup>	MPa	23	ISO 527-2
Tensile Elongation @ break <sup>(3)</sup>	%	>350	
Tensile Modulus <sup>(3)</sup>	MPa	900	
Tensile Creep Modulus @ 100h	MPa	360	
Charpy Notched Impact Strength @ 23°C	KJ/m <sup>2</sup>	26	ISO 179
<b>THERMAL PROPERTIES</b>			
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