

POLYMERS

SABIC[®] HDPE PIPE P6006RC

Provisional Data Sheet

PRODUCT DESCRIPTION

P6006RC is black compound high density polyethylene (class MRS 10 MPa) specially designed for pressure pipe. It offers excellent resistance to slow crack growth propagation in high-pressure pipe applications and can therefore be used with advanced trenchless pipe installation technologies such as re-lining, horizontal directional drilling & pipe bursting.

TYPICAL APPLICATIONS

P6006RC 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 Moduls @ 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.