

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 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 P6006RC

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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