



# SABIC<sup>®</sup> PPCOMPOUND G1620B

PP SHORT GLASS FIBER REINFORCED

## DESCRIPTION

SABIC<sup>®</sup> PPcompound G1620B is a low flow PP random co-polymer with glass fibers for multi-layer PPR-GF composite pipe applications. This material has been designed to combine good performance properties with good processing and excellent surface esthetics.

SABIC<sup>®</sup> PPcompound G1620B is a designated pipe grade.

## TYPICAL PROPERTY VALUES

| PROPERTIES                                  | TYPICAL VALUES | UNITS             | TEST METHODS |
|---|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                   |                |                   |              |
| <b>Melt Flow Rate</b>                       |                |                   |              |
| at 230 °C and 2.16 kg                       | 1              | dg/min            | ISO 1133     |
| <b>Density</b> <sup>(1)</sup>               | 1030           | kg/m <sup>3</sup> | ISO 1183     |
| <b>Filler content</b>                       | 20             | %                 | SABIC method |
| <b>MECHANICAL PROPERTIES</b> <sup>(1)</sup> |                |                   |              |
| <b>Tensile test</b>                         |                |                   |              |
| Tensile modulus                             | 3200           | MPa               | ISO 527/1A   |
| stress at break                             | 45             | MPa               | ISO 527/1A   |
| strain at break                             | 7              | %                 | ISO 527/1A   |
| <b>Flexural test</b>                        |                |                   |              |
| Flexural modulus                            | 2800           | MPa               | ISO 178      |
| <b>Izod impact notched</b> <sup>(2)</sup>   |                |                   |              |
| at 23 °C                                    | 17             | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL PROPERTIES</b> <sup>(1)</sup>    |                |                   |              |
| <b>Heat deflection temperature</b>          |                |                   |              |
| at 1.80 MPa (HDT/A)                         | -              | °C                | ISO 75/A     |
| at 0.45 MPa (HDT/B)                         | -              | °C                | ISO 75/B     |
| <b>Coeff. of linear thermal expansion</b>   |                |                   |              |
| -30 °C to 100 °C                            | -              | µm/mK             | ISO 11359-2  |

(1) Injection molded sample ISO527-1A

(2) N.B.: No Break

## QUALITY

SABIC is fully certified in accordance with the internationally accepted quality standard ISO9001.

## STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and/or high humidity as this could well speed up alteration and consequently loss of quality of the material and/or its packaging. Keep material completely dry for good processing.