

SABIC[®] PPCOMPOUND G1640A

PP SHORT GLASS FIBER REINFORCED

DESCRIPTION

SABIC[®] PPcompound G1640A is a low flow PP random copolymer with 40% glass fibers for multi-layer pipe applications. This material has been designed to combine a good performance profile with good processing.

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate | | | |
| at 230 °C and 2.16 kg | 1.5 | dg/min | ISO 1133 |
| Density ⁽¹⁾ | 1220 | kg/m ³ | ISO 1183 |
| Filler content | 40 | % | SABIC method |
| Mould shrinkage ⁽²⁾ | | | |
| 24 hours after injection moulding | 0.8 | % | SABIC method |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile test | | | |
| Tensile modulus | 6000 | MPa | ISO 527/1A |
| stress at break | 70 | MPa | ISO 527/1A |
| strain at break | 3.6 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 6300 | MPa | ISO 178/1A |
| THERMAL PROPERTIES ⁽¹⁾ | | | |
| Heat deflection temperature | | | |
| at 1.80 MPa (HDT/A) | 150 | °C | ISO 75/A |
| Coeff. of linear thermal expansion | | | |
| -30 °C to 100 °C | - | µm/mK | ISO 11359-2 |

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

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.