

SABIC® PPCOMPOUND 9180B

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 9180B is an elastomer-modified mineral filled Polypropylene for automotive interior applications. This material has been designed to combine a good performance profile with good processing.

SABIC® PPcompound 9180B is a designated automotive grade.

IMDS ID: 681700742

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|--------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 24 | dg/min | ISO 1133 |
| Density ⁽¹⁾ | 1020 | kg/m³ | ISO 1183 |
| Filler content | 18 | % | SABIC method |
| Mould shrinkage ⁽²⁾ | | | |
| 24 hours after injection moulding | 0.9 | % | SABIC method |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile | | | |
| Tensile modulus | 1900 | MPa | ISO 527/1A |
| stress at yield | 25 | MPa | ISO 527/1A |
| stress at break | 15 | MPa | ISO 527/1A |
| strain at break | 35 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 2050 | MPa | ISO 178/1A |
| Izod impact notched ⁽³⁾ | | | |
| at 23 °C | 20 | kJ/m² | ISO 180/1A |
| at 0 °C | 10 | kJ/m² | ISO 180/1A |
| at -20 °C | 5 | kJ/m² | ISO 180/1A |
| THERMAL PROPERTIES ⁽¹⁾ | | | |
| Heat deflection temperature | | | |
| at 1.80 MPa (HDT/A) | - | °C | ISO 75 |
| at 0.45 MPa (HDT/B) | 110 | °C | ISO 75 |
| 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

(3) N.B.: No Break

