

## SABIC® PPCOMPOUND 9180

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

### DESCRIPTION

SABIC® PPcompound 9180 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 9180 is a designated automotive grade.

IMDS ID: 284711062

### TYPICAL PROPERTY VALUES

Revision 20211207

| PROPERTIES                                            | TYPICAL VALUES | UNITS  | TEST METHODS |
|-------------------------------------------------------|----------------|--------|--------------|
| <strong>POLYMER PROPERTIES</strong>                   |                |        |              |
| <strong>Melt Flow Rate (MFR)</strong>                 |                |        |              |
| at 230 °C and 2.16 kg                                 | 24             | dg/min | ISO 1133     |
| <strong>Density</strong> <sup>(1)</sup>               | 1020           | kg/m³  | ISO 1183     |
| <strong>Filler content</strong>                       | 20             | %      | SABIC method |
| <strong>Mould shrinkage</strong> <sup>(2)</sup>       |                |        |              |
| 24 hours after injection moulding                     | 0.9            | %      | SABIC method |
| <strong>MECHANICAL PROPERTIES</strong> <sup>(1)</sup> |                |        |              |
| <strong>Tensile test</strong>                         |                |        |              |
| 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   |
| <strong>Flexural test</strong>                        |                |        |              |
| Flexural modulus                                      | 2050           | MPa    | ISO 178/1A   |
| <strong>Izod impact notched</strong> <sup>(3)</sup>   |                |        |              |
| at 23 °C                                              | 25             | kJ/m²  | ISO 180/1A   |
| at 0 °C                                               | 10             | kJ/m²  | ISO 180/1A   |
| at -20 °C                                             | 5              | kJ/m²  | ISO 180/1A   |
| <strong>THERMAL PROPERTIES</strong> <sup>(1)</sup>    |                |        |              |
| <strong>Heat deflection temperature</strong>          |                |        |              |
| at 0.45 MPa (HDT/B)                                   | 110            | °C     | ISO 75       |
| <strong>Vicat Softening Temperature</strong>          |                |        |              |
| at 10 N (VST/A)                                       | -              | °C     | ISO 306/A    |
| <strong>Coeff. of linear thermal expansion</strong>   |                |        |              |
| -30 °C to 100 °C                                      | 75             | µm/mK  | ISO 11359-2  |

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

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CHEMISTRY THAT MATTERS™



### 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.

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