

## SABIC® PPCOMPOUND 9156

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

### DESCRIPTION

SABIC® PPcompound 9156 is a mineral filled modified polypropylene. This material combines high scratch resistance, high stiffness, good impact and high flow. Typical applications include esthetical automotive interior parts such as instrument panels, lower and upper dashboard, door panels and trim.

SABIC® PPcompound 9156 is a designated automotive grade.

IMDS ID: 312951963

### TYPICAL PROPERTY VALUES

Revision 20240424

| PROPERTIES                                            | TYPICAL VALUES | UNITS  | TEST METHODS |
|-------------------------------------------------------|----------------|--------|--------------|
| <strong>POLYMER PROPERTIES</strong>                   |                |        |              |
| <strong>Melt Flow Rate (MFR)</strong>                 |                |        |              |
| at 230 °C and 2.16 kg                                 | 25             | dg/min | ISO 1133     |
| <strong>Density <sup>(1)</sup></strong>               | 1020           | kg/m³  | ISO 1183     |
| <strong>Filler content</strong>                       | 15             | %      | SABIC method |
| <strong>Mould shrinkage <sup>(2)</sup></strong>       |                |        |              |
| 24 hours after injection moulding                     | 0.8            | %      | SABIC method |
| <strong>MECHANICAL PROPERTIES <sup>(1)</sup></strong> |                |        |              |
| <strong>Tensile test</strong>                         |                |        |              |
| Tensile modulus                                       | 1700           | MPa    | ISO 527/1A   |
| stress at yield                                       | 20             | MPa    | ISO 527/1A   |
| stress at break                                       | 13             | MPa    | ISO 527/1A   |
| strain at break                                       | 50             | %      | ISO 527/1A   |
| <strong>Flexural test</strong>                        |                |        |              |
| Flexural modulus                                      | 1900           | MPa    | ISO 178/1A   |
| <strong>Izod impact notched <sup>(3)</sup></strong>   |                |        |              |
| at 23 °C                                              | 25             | kJ/m²  | ISO 180/1A   |
| at 0 °C                                               | 10             | kJ/m²  | ISO 180/1A   |
| at -20 °C                                             | 6              | kJ/m²  | ISO 180/1A   |
| <strong>THERMAL PROPERTIES <sup>(1)</sup></strong>    |                |        |              |
| <strong>Heat deflection temperature</strong>          |                |        |              |
| at 0.45 MPa (HDT/B)                                   | 120            | °C     | ISO 75       |
| <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

### 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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