

## SABIC® PPCOMPOUND 19T1040

PP COMPOUND MINERAL FILLED

### DESCRIPTION

SABIC® PPcompound 19T1040 is a 40% talc-filled polypropylene homopolymer. The material's high fill grade makes for a very high stiffness. This combined with the high flow and good thermal stabilization makes it especially suited for complex injection molded applications requiring a very high modulus and high thermal stability.

SABIC® PPcompound 19T1040 is a designated automotive grade.

IMDS ID: 671989392

### TYPICAL PROPERTY VALUES

Revision 20260316

| PROPERTIES                                  | TYPICAL VALUES | UNITS  | TEST METHODS |
|---------------------------------------------|----------------|--------|--------------|
| <b>POLYMER PROPERTIES</b>                   |                |        |              |
| <b>Melt Flow Rate (MFR)</b>                 |                |        |              |
| at 230 °C and 2.16 kg                       | 18             | dg/min | ISO 1133     |
| <b>Density</b> <sup>(1)</sup>               | 1250           | kg/m³  | ISO 1183     |
| <b>Filler content</b>                       | 40             | %      | SABIC method |
| <b>Mould shrinkage</b> <sup>(2)</sup>       |                |        |              |
| 24 hours after injection moulding           | 0.8            | %      | SABIC method |
| <b>MECHANICAL PROPERTIES</b> <sup>(1)</sup> |                |        |              |
| <b>Tensile</b>                              |                |        |              |
| Tensile modulus                             | 3600           | MPa    | ISO 527/1A   |
| stress at yield                             | 30             | MPa    | ISO 527/1A   |
| stress at break                             | 24             | MPa    | ISO 527/1A   |
| strain at break                             | 11             | %      | ISO 527/1A   |
| <b>Flexural test</b>                        |                |        |              |
| Flexural modulus                            | 3600           | MPa    | ISO 178/1A   |
| <b>Izod impact notched</b> <sup>(3)</sup>   |                |        |              |
| at 23 °C                                    | 2.8            | kJ/m²  | ISO 180/1A   |
| at 0 °C                                     | 1.6            | kJ/m²  | ISO 180/1A   |
| at -20 °C                                   | 1.5            | kJ/m²  | ISO 180/1A   |
| <b>THERMAL PROPERTIES</b> <sup>(1)</sup>    |                |        |              |
| <b>Heat deflection temperature</b>          |                |        |              |
| at 0.45 MPa (HDT/B)                         | 130            | °C     | ISO 75       |
| <b>Coeff. of linear thermal expansion</b>   |                |        |              |
| -30 °C to 100 °C                            | 68             | µm/mK  | ISO 11359-2  |
| 23 °C to 80 °C                              | 90             | µm/mK  | ASTM D696    |
| -30 °C to 30 °C                             | 45             | µm/mK  | ASTM D696    |

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

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### 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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