

SABIC® PP COMPOUND 9125

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 9125 is a Mineral Filled Modified Polypropylene for esthetic interior applications. This material combines a high scratch resistance with high stiffness, good impact and high flow. The broad processing window enables application in complex shapes as often found in automotive interior.

SABIC® PPcompound 9125 is a designated automotive grade.

IMDS ID: 478161235

TYPICAL PROPERTY VALUES

Revision 20211206

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 20 | dg/min | ISO 1133 |
| Density ⁽¹⁾ | 1010 | kg/m ³ | ISO 1183 |
| Filler content | 16 | % | SABIC method |
| Mould shrinkage ⁽²⁾ | | | |
| 24 hours after injection moulding | 0.9 | % | SABIC method |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile test | | | |
| Tensile modulus | 1750 | MPa | ISO 527/1A |
| stress at yield | 21 | MPa | ISO 527/1A |
| stress at break | 15 | MPa | ISO 527/1A |
| strain at break | 20 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 1800 | MPa | ISO 178/1A |
| Izod impact notched ⁽³⁾ | | | |
| at 23 °C | 12 | kJ/m ² | ISO 180/1A |
| at 0 °C | 6 | kJ/m ² | ISO 180/1A |
| at -20 °C | - | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES ⁽¹⁾ | | | |
| Heat deflection temperature | | | |
| at 0.45 MPa (HDT/B) | 106 | °C | ISO 75 |
| Coeff. of linear thermal expansion | | | |
| -30 °C to 30 °C | 57 | 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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+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)



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