



SABIC[®] PPCOMPOUND 5405

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC[®] PPcompound 5405 is a modified polypropylene compound. Material properties include excellent flow, high impact and good stiffness. The material exhibits excellent esthetical behaviour with very low tiger stripes visibility. Typical applications include automotive exterior parts such as large complex shaped bumpers and trims which can be painted, partially painted or unpainted.

SABIC[®] PPcompound 5405 is a designated automotive grade.

IMDS ID: 16484475

TYPICAL PROPERTY VALUES

Revision 20190424

| 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⁾ | 905 | kg/m ³ | ISO 1183 |
| Filler content | 2.5 | % | SABIC method |
| Mould shrinkage ⁽²⁾ | | | |
| 24 hours after injection moulding | 1.2 | % | SABIC method |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile test | | | |
| Tensile modulus | 1150 | MPa | ISO 527/1A |
| stress at yield | 20 | MPa | ISO 527/1A |
| stress at break | 18 | MPa | ISO 527/1A |
| strain at break | 300 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 1200 | MPa | ISO 178/1A |
| Izod impact notched ⁽³⁾ | | | |
| at 23 °C | N.B. | kJ/m ² | ISO 180/1A |
| at 0 °C | 10 | kJ/m ² | ISO 180/1A |
| at -20 °C | 8 | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES ⁽¹⁾ | | | |
| Heat deflection temperature | | | |
| at 0.45 MPa (HDT/B) | 95 | °C | ISO 75 |
| Coeff. of linear thermal expansion | | | |
| 23 °C to 80 °C | 125 | µm/mK | ASTM D696 |
| -30 °C to 30 °C | 90 | µm/mK | ASTM D696 |

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break



QUALITY

SABIC is fully certified in accordance with the internationally accepted quality standard ISO 9001.

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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