

# SABIC® PPCOMPOUND 7706

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

## DESCRIPTION

SABIC® PPcompound 7706 is a mineral filled modified polypropylene. This material combines high scratch resistance, high stiffness, good impact and high flow. This material has a very broad processing window combined with good esthetical performance. Typical applications include esthetical automotive interior parts such as instrument panels, lower and upper dashboard, door panels and trim.

SABIC® PPcompound 7706 is a designated automotive grade.

IMDS ID: 16486539

## TYPICAL PROPERTY VALUES

Revision 20211207

| PROPERTIES                                  | TYPICAL VALUES | UNITS             | TEST METHODS |
|---------------------------------------------|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                   |                |                   |              |
| <b>Melt Flow Rate (MFR)</b>                 |                |                   |              |
| at 230 °C and 2.16 kg                       | 22             | dg/min            | ISO 1133     |
| <b>Density</b> <sup>(1)</sup>               | 1000           | kg/m <sup>3</sup> | ISO 1183     |
| <b>Filler content</b>                       | 15             | %                 | SABIC method |
| <b>Mould shrinkage</b> <sup>(2)</sup>       |                |                   |              |
| 24 hours after injection moulding           | 0.95           | %                 | SABIC method |
| <b>MECHANICAL PROPERTIES</b> <sup>(1)</sup> |                |                   |              |
| <b>Tensile test</b>                         |                |                   |              |
| Tensile modulus                             | 1650           | MPa               | ISO 527/1A   |
| stress at yield                             | 22             | MPa               | ISO 527/1A   |
| stress at break                             | 17             | MPa               | ISO 527/1A   |
| strain at break                             | 500            | %                 | ISO 527/1A   |
| <b>Flexural test</b>                        |                |                   |              |
| Flexural modulus                            | 1800           | MPa               | ISO 178/1A   |
| <b>Izod impact notched</b> <sup>(3)</sup>   |                |                   |              |
| at 23 °C                                    | 20             | kJ/m <sup>2</sup> | ISO 180/1A   |
| at 0 °C                                     | 6              | kJ/m <sup>2</sup> | ISO 180/1A   |
| at -20 °C                                   | 4              | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL PROPERTIES</b> <sup>(1)</sup>    |                |                   |              |
| <b>Heat deflection temperature</b>          |                |                   |              |
| at 0.45 MPa (HDT/B)                         | 100            | °C                | ISO 75       |
| <b>Coeff. of linear thermal expansion</b>   |                |                   |              |
| -30 °C to 100 °C                            | 80             | 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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