

# SABIC® PPCOMPOUND 6504

PP COMPOUND MF IMPACT MODIFIED  
REGION EUROPE

## DESCRIPTION

SABIC® PPcompound 6504 is a mineral filled modified polypropylene. Material properties include high flow, very high impact, good stiffness and low shrinkage/CLTE. Typical applications include automotive exterior parts such as trims and bumpers. It can be used in painted and unpainted applications with UV stabilization added on demand.

SABIC® PPcompound 6504 is a designated automotive grade.

IMDS ID: 16485380

## TYPICAL PROPERTY VALUES

| 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 <sup>(1)</sup></b>               | 970            | kg/m <sup>3</sup> | ISO 1183     |
| <b>Mould shrinkage <sup>(2)</sup></b>       |                |                   |              |
| 24 hours after injection moulding           | 0.9            | %                 | SABIC method |
| <b>MECHANICAL PROPERTIES <sup>(1)</sup></b> |                |                   |              |
| <b>Tensile test</b>                         |                |                   |              |
| stress at yield                             | 16             | MPa               | ISO 527/1A   |
| stress at break                             | 11             | MPa               | ISO 527/1A   |
| strain at break                             | 150            | %                 | ISO 527/1A   |
| <b>Flexural test</b>                        |                |                   |              |
| Flexural modulus                            | 950            | MPa               | ISO 178/1A   |
| <b>Izod impact notched <sup>(3)</sup></b>   |                |                   |              |
| at 23 °C                                    | N.B.           | kJ/m <sup>2</sup> | ISO 180/1A   |
| at 0 °C                                     | N.B.           | kJ/m <sup>2</sup> | ISO 180/1A   |
| at -20 °C                                   | 12             | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL PROPERTIES <sup>(1)</sup></b>    |                |                   |              |
| <b>Heat deflection temperature</b>          |                |                   |              |
| at 0.45 MPa (HDT/B)                         | 80             | °C                | ISO 75       |
| <b>Coeff. of linear thermal expansion</b>   |                |                   |              |
| -30 °C to 100 °C                            | 85             | µm/mK             | ISO 11359-2  |

