

SABIC® PPCOMPOUND 2550/4

PP COMPOUND MF IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 2550/4 is a mineral filled modified polypropylene. Typical material properties include good flow, high impact, good stiffness, low gloss and low CLTE. Typical application of this material includes automotive exterior parts such as trims and bumpers with large unpainted areas. It can be used in painted and unpainted applications with UV stabilization added on demand.

SABIC® PPcompound 2550/4 is a designated automotive grade.

IMDS ID: 16485341

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|--------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 13 | dg/min | ISO 1133 |
| Density ⁽¹⁾ | 960 | kg/m³ | ISO 1183 |
| Filler content | 10 | % | SABIC method |
| Mould shrinkage ⁽²⁾ | | | |
| 24 hours after injection moulding | 0.9 | % | SABIC method |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile test | | | |
| Tensile modulus | 1100 | MPa | ISO 527/1A |
| stress at yield | 16 | MPa | ISO 527/1A |
| stress at break | 13 | MPa | ISO 527/1A |
| strain at break | 100 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 1100 | MPa | ISO 178/1A |
| Izod impact notched ⁽³⁾ | | | |
| at 23 °C | N.B. | kJ/m² | ISO 180/1A |
| at 0 °C | N.B. | kJ/m² | ISO 180/1A |
| at -20 °C | N.B. | kJ/m² | ISO 180/1A |
| THERMAL PROPERTIES ⁽¹⁾ | | | |
| Heat deflection temperature | | | |
| at 0.45 MPa (HDT/B) | 90 | °C | ISO 75 |
| Coeff. of linear thermal expansion | | | |
| -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

