



SABIC® PPCOMPOUND T5E-3020B

PP COMPOUND MINERAL FILLED

DESCRIPTION

SABIC® PPcompound T5E-3020B is a development grade, mineral filled Polypropylene compound, which is formulated with 50wt% post-industrial recycled plastics.
The grade is part of SABIC's TRUCIRCLE™ portfolio and services. High stiffness, combined with good thermal stabilization and excellent UV performance, makes the grade suitable for exterior applications.

SABIC® PPcompound T5E-3020B is a designated automotive grade.

IMDS ID: 1168953224

TYPICAL PROPERTY VALUES

Revision 20221025

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|--------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 14 | dg/min | ISO 1133 |
| Density ⁽¹⁾ | 1040 | kg/m³ | ISO 1183 |
| Filler content | 20 | % | SABIC method |
| Mould shrinkage ⁽²⁾ | | | |
| 24 hours after injection moulding | 1.1 | % | SABIC method |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile test | | | |
| Tensile modulus | 2300 | MPa | ISO 527/1A |
| stress at yield | 28 | MPa | ISO 527/1A |
| stress at break | 18 | MPa | ISO 527/1A |
| strain at break | 26 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 2500 | MPa | ISO 178/1A |
| Izod impact notched ⁽³⁾ | | | |
| at 23 °C | 3.5 | kJ/m² | ISO 180/1A |
| at 0 °C | 2.7 | kJ/m² | ISO 180/1A |
| at -20 °C | 2.3 | kJ/m² | ISO 180/1A |
| THERMAL PROPERTIES ⁽¹⁾ | | | |
| Heat deflection temperature | | | |
| at 0.45 MPa (HDT/B) | 60 | °C | ISO 75 |
| Coeff. of linear thermal expansion | | | |
| -30 °C to 100 °C | 100 | 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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