

# SABIC<sup>®</sup> PPCOMPOUND 3010UE

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

## DESCRIPTION

SABIC<sup>®</sup> PPcompound 3010UE is an elastomer-modified mineral filled Polypropylene for automotive exterior applications. This material has been designed to combine high flow and high modulus in combination with good surface esthetics and emission, and makes this grade suitable for exterior applications, like cowl top panels.

SABIC<sup>®</sup> PPcompound 3010UE is a designated automotive grade.

## 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                       | 30             | dg/min            | ISO 1133     |
| <b>Density</b> <sup>(1)</sup>               | 960            | kg/m <sup>3</sup> | ISO 1183     |
| <b>Filler content</b>                       | 10             | %                 | SABIC method |
| <b>Mould shrinkage</b> <sup>(2)</sup>       |                |                   |              |
| 24 hours after injection moulding           | 1.1            | %                 | SABIC method |
| <b>MECHANICAL PROPERTIES</b> <sup>(1)</sup> |                |                   |              |
| <b>Tensile test</b>                         |                |                   |              |
| Tensile modulus                             | 2000           | MPa               | ISO 527/1A   |
| stress at yield                             | 28             | MPa               | ISO 527/1A   |
| stress at break                             | 21             | MPa               | ISO 527/1A   |
| strain at break                             | 15             | %                 | ISO 527/1A   |
| <b>Flexural test</b>                        |                |                   |              |
| Flexural modulus                            | 2100           | MPa               | ISO 178/1A   |
| <b>Izod impact notched</b> <sup>(3)</sup>   |                |                   |              |
| at 23 °C                                    | 5              | kJ/m <sup>2</sup> | ISO 180/1A   |
| at 0 °C                                     | -              | kJ/m <sup>2</sup> | ISO 180/1A   |
| at -20 °C                                   | -              | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL PROPERTIES</b> <sup>(1)</sup>    |                |                   |              |
| <b>Heat deflection temperature</b>          |                |                   |              |
| at 1.80 MPa (HDT/A)                         | -              | °C                | ISO 75       |
| at 0.45 MPa (HDT/B)                         | -              | %                 | ISO 75       |
| <b>Coeff. of linear thermal expansion</b>   |                |                   |              |
| -30 °C to 100 °C                            | -              | µm/mK             | ISO 11359-2  |

(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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