

# SABIC<sup>®</sup> PPCOMPOUND 8536B

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

## DESCRIPTION

SABIC<sup>®</sup> PPcompound 8536B is an elastomer-modified mineral filled Polypropylene for painted automotive exterior applications. This material has been designed to combine a good performance profile with good processing.

SABIC<sup>®</sup> PPcompound 8536B is a designated automotive grade.

IMDS ID: 459467538

## 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                       | 20             | dg/min            | ISO 1133     |
| <b>Density</b> <sup>(1)</sup>               | 990            | 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           | 0.7            | %                 | SABIC method |
| <b>MECHANICAL PROPERTIES</b> <sup>(1)</sup> |                |                   |              |
| <b>Tensile</b>                              |                |                   |              |
| Tensile modulus                             | 1350           | MPa               | ISO 527/1A   |
| stress at yield                             | 18.5           | MPa               | ISO 527/1A   |
| stress at break                             | 13.5           | MPa               | ISO 527/1A   |
| strain at break                             | >150           | %                 | ISO 527/1A   |
| <b>Flexural test</b>                        |                |                   |              |
| Flexural modulus                            | 1550           | MPa               | ISO 178/1A   |
| <b>Izod impact notched</b> <sup>(3)</sup>   |                |                   |              |
| at 23 °C                                    | 60             | kJ/m <sup>2</sup> | ISO 180/1A   |
| at 0 °C                                     | 60             | kJ/m <sup>2</sup> | ISO 180/1A   |
| at -20 °C                                   | 10             | 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)                         | 95             | °C                | ISO 75       |
| <b>Coeff. of linear thermal expansion</b>   |                |                   |              |
| -30 °C to 100 °C                            | 60             | 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 ISO9001.