

SABIC® PP COMPOUND 8609U

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 8609U is an elastomer-modified mineral filled Polypropylene for automotive exterior applications. This material has been designed to combine high modulus and high impact with good processing.

SABIC® PPcompound 8609U is a designated automotive grade.

IMDS ID: 967434899

TYPICAL PROPERTY VALUES

Revision 20210525

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 27 | dg/min | ISO 1133 |
| Density ⁽¹⁾ | 1130 | kg/m ³ | ISO 1183 |
| Filler content | 29 | % | SABIC method |
| Mould shrinkage ⁽²⁾ | | | |
| 24 hours after injection moulding | 0.6 | % | SABIC method |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile test | | | |
| Tensile modulus | 1600 | MPa | ISO 527/1A |
| Stress at yield | 17 | MPa | ISO 527/1A |
| Stress at break | 11 | MPa | ISO 527/1A |
| Strain at break | 66 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 1900 | MPa | ISO 178/1A |
| Izod impact notched ⁽³⁾ | | | |
| at 23 °C | 17 | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES ⁽¹⁾ | | | |
| Heat deflection temperature | | | |
| at 1.80 MPa (HDT/A) | 65 | °C | ISO 75 |
| at 0.45 MPa (HDT/B) | 115 | °C | ISO 75 |
| Coeff. of linear thermal expansion | | | |
| -30 °C to 100 °C | 106 | 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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