



SABIC® PPCOMPOUND G3220A

PP SHORT GLASS FIBER REINFORCED

DESCRIPTION

SABIC® PPcompound G3220A is a 20% short glass fiber reinforced Polypropylene for under-the-hood and structural applications. The base material is a PP homopolymer. The glass fibres are chemically coupled to the PP matrix. This material has been designed to combine a good performance profile with fast processing.

SABIC® PPcompound G3220A is a designated automotive grade.

IMDS ID: 209767996

TYPICAL PROPERTY VALUES

Revision 20230421

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|--------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 17 | dg/min | ISO 1133 |
| Density ⁽¹⁾ | 1040 | kg/m³ | ISO 1183 |
| Filler content | 20 | % | SABIC method |
| Mould shrinkage ⁽²⁾ | | | |
| 24 hours after injection moulding | 0.7 | % | SABIC method |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile | | | |
| stress at break | 80 | MPa | ISO 527/1A |
| strain at break | 3.3 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 4500 | MPa | ISO 178/1A |
| Izod impact notched | | | |
| at 23 °C | 10 | kJ/m² | ISO 180/1A |
| at 0 °C | 10 | kJ/m² | ISO 180/1A |
| at -20 °C | 10 | kJ/m² | ISO 180/1A |
| THERMAL PROPERTIES ⁽¹⁾ | | | |
| Heat deflection temperature | | | |
| at 1.80 MPa (HDT/A) | 150 | °C | ISO 75/A |
| Coeff. of linear thermal expansion | | | |
| -30 °C to 100 °C | 55 | µm/mK | ISO 11359-2 |

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

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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