

SABIC® PPCOMPOUND G3220AU

PP SHORT GLASS FIBER REINFORCED

DESCRIPTION

Preliminary datasheet

SABIC® PPcompound G3220AU is 20% short glass fiber reinforced Polypropylene for exterior grill applications. The base material is a PP homopolymer and the glass fibres are chemically coupled to the PP matrix. This material has been designed to combine a good performance profile with excellent UV resistance and good processing.

IMDS ID:960919886

TYPICAL PROPERTY VALUES

| 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/m ³ | ISO 1183 |
| Filler content | 20 | % | SABIC method |
| Mould shrinkage ⁽²⁾ | | | |
| 24 hours after injection moulding | 0.70 | % | SABIC method |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile test | | | |
| Tensile modulus | 5000 | MPa | ISO 527/1A |
| stress at break | 80 | MPa | ISO 527/1A |
| strain at break | 3 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 4500 | MPa | ISO 178/1A |
| Charpy Impact Strength Notched | | | |
| at 23 °C | 9 | kJ/m ² | ISO 179/1eA |
| THERMAL PROPERTIES ⁽¹⁾ | | | |
| Heat deflection temperature | | | |
| at 1.80 MPa (HDT/A) | 150 | °C | ISO 75 |
| 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

