

# 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

Revision 20260316

| PROPERTIES                                  | TYPICAL VALUES | UNITS             | TEST METHODS |
|---|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                   |                |                   |              |
| <b>Melt Flow Rate (MFR)</b>                 |                |                   |              |
| at 230 °C and 2.16 kg                       | 14             | dg/min            | ISO 1133     |
| <b>Density</b> <sup>(1)</sup>               | 1040           | kg/m <sup>3</sup> | ISO 1183     |
| <b>Filler content</b>                       | 20             | %                 | SABIC method |
| <b>Mould shrinkage</b> <sup>(2)</sup>       |                |                   |              |
| 24 hours after injection moulding           | 0.70           | %                 | SABIC method |
| <b>MECHANICAL PROPERTIES</b> <sup>(1)</sup> |                |                   |              |
| <b>Tensile test</b>                         |                |                   |              |
| Tensile modulus                             | 5000           | MPa               | ISO 527/1A   |
| stress at break                             | 80             | MPa               | ISO 527/1A   |
| strain at break                             | 3              | %                 | ISO 527/1A   |
| <b>Flexural test</b>                        |                |                   |              |
| Flexural modulus                            | 4500           | MPa               | ISO 178/1A   |
| <b>Charpy Impact Strength Notched</b>       |                |                   |              |
| at 23 °C                                    | 9              | kJ/m <sup>2</sup> | ISO 179/1eA  |
| <b>THERMAL PROPERTIES</b> <sup>(1)</sup>    |                |                   |              |
| <b>Heat deflection temperature</b>          |                |                   |              |
| at 1.80 MPa (HDT/A)                         | 150            | °C                | ISO 75       |
| <b>Coeff. of linear thermal expansion</b>   |                |                   |              |
| -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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