

SABIC® G3220A

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

Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	Injection molded sample ISO527-1A; ISO 1183

Filler Content

20 %

20 %

SABIC method

Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	Injection molded plaque 65x65x3.2mm; SABIC method
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Melt Flow

17 g/10 min
@Load 2.16 kg,
Temperature 230 °C

17 g/10 min
@Load 4.76 lb,
Temperature 446 °F

ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527/1A

Elongation at Break

3.3 %

3.3 %

ISO 527/1A

Flexural Modulus	4.50 GPa	653 ksi	ISO 178/1A
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Charpy Impact, Notched

1.00 J/cm²

4.76 ft-lb/in²

ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 µm/m-°C @Temperature -30.0 - 100 °C	30.6 µin/in-°F @Temperature -22.0 - 212 °F	ISO 11359-2

Deflection Temperature at 1.8 MPa (264 psi)

150 °C

302 °F

ISO 75/A