

SABIC® PP COMPOUND G3220A

PP SHORT GLASS FIBER REINFORCED

DESCRIPTION

SABIC® PP compound 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® PP compound 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/m ³	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/m ²	ISO 180/1A
at 0 °C	10	kJ/m ²	ISO 180/1A
at -20 °C	10	kJ/m ²	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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