

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 20201016

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

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.



+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)



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