

SABIC® PPCOMPOUND G1520U

PP SHORT GLASS FIBER REINFORCED

DESCRIPTION

SABIC® PPCOMPOUND G1520U is a short glass fiber filled grade, with enhanced UV stability. This grade is developed for appliances and provides high stiffness with low mold shrinkage.

IMDS ID:794156176

TYPICAL PROPERTY VALUES

Revision 20230421

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	18	dg/min	ISO 1133
Density ⁽¹⁾	1040	kg/m³	ISO 1183
Filler content	20	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.7	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	4500	MPa	ISO 527/1A
stress at yield	70	MPa	ISO 527/1A
stress at break	80	MPa	ISO 527/1A
strain at break	3.5	%	ISO 527/1A
Flexural test			
Flexural modulus	4500	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	5	kJ/m²	ISO 180/1A
at 0 °C	3.7	kJ/m²	ISO 180/1A
at -20 °C	3.4	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	160	°C	ISO 75
at 1.80 MPa (HDT/A)	145	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	60	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

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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