

SABIC® PPCOMPOUND G1120U

PP SHORT GLASS FIBER REINFORCED

DESCRIPTION

SABIC® PPcompound G1120U is a 20% short glass fiber reinforced and UV stabilized Polypropylene. The base material is a PP homopolymer optimized for good creep resistance. The glass fibres are hydrolytically stable and are chemically coupled to the PP matrix.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	3	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	0.69	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	4500	MPa	ISO 527/1A
stress at break	80	MPa	ISO 527/1A
strain at break	3.7	%	ISO 527/1A
Flexural test			
Flexural modulus	4330	MPa	ISO 178/1A
Charpy Impact Strength Notched			
at 23 °C	11	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	145	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	52	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

