

SABIC® PP COMPOUND G3010A

PP SHORT GLASS FIBER REINFORCED
REGION EUROPE

DESCRIPTION

SABIC® PPcompound G3010A is a 10% short glass fiber reinforced Polypropylene for under-the-hood/KWAB applications. The base material is a PP random copolymer. The glass fibres are chemically coupled to the PP matrix. This material has been designed to combine an optimal impact-stiffness balance with excellent creep performance.

SABIC® PPcompound G3010A is a designated automotive grade.

IMDS ID: 593191384

TYPICAL PROPERTY VALUES

Revision 20230421

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	0.2	dg/min	ISO 1133
Density	960	kg/m ³	ISO 1183
Filler content	10	%	SABIC method
Mould shrinkage⁽¹⁾			
24 hours after injection moulding	1.1 – 1.2	%	SABIC method
MECHANICAL PROPERTIES			
Tensile test⁽²⁾			
stress at yield	50	MPa	ISO 527/1A
stress at break	40	MPa	ISO 527/1A
strain at break	8	%	ISO 527/1A
Tensile modulus			
at 23 °C	2400	MPa	ISO 527/1A
Flexural test⁽³⁾			
Flexural modulus	2200	MPa	ISO 178
Izod impact notched			
at 23 °C	17	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	90	°C	ISO 75/A
at 0.45 MPa (HDT/B)	140	°C	ISO 75/B

(1) All measurements on injection molded samples.

(2) Speed of testing: 5 mm/min; Speciment ISO 527-1,4 mm

(3) 3-point loading

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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