



# SABIC® PPCOMPOUND G3230A

PP SHORT GLASS FIBER REINFORCED  
REGION AMERICAS

## DESCRIPTION

SABIC® PPcompound G3230A is a 30% short glass fiber reinforced Polypropylene for under-the-hood and structural applications. The base material is a PP homopolymer and is available in standard black. 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® PPcompound G3230A is a designated automotive grade.

IMDS ID: 109612410

## TYPICAL PROPERTY VALUES

Revision 20210721

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, brk, Type I, 50 mm/min	83	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	2.7	%	ASTM D638
Tensile Modulus, 50 mm/min	6580	MPa	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	5120	MPa	ASTM D790
Tensile Stress, break, 50 mm/min, 1A	85	MPa	ISO 527
Tensile Strain, break, 50 mm/min	3.3	%	ISO 527
Tensile Modulus, 1 mm/min	6500	MPa	ISO 527
Flexural Modulus, 2 mm/min, 64mm span	6600	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C, 63.5*12.7*3.2mm, Cut	568	J/m	ASTM D4812
Izod Impact, notched, 23°C, 63.5*12.7*3.2mm, Cut	81	J/m	ASTM D256
Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s	7	J	ASTM D3763
Izod Impact, notched, 23°C, 80*10*4mm, Cut	10	kJ/m²	ISO 180/1A
Izod Impact, notched, -30°C, 80*10*4mm, Cut	10	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C, 80*10*4mm, Cut	10	kJ/m²	ISO 179/1eA
Charpy Impact, notched, -30°C, 80*10*4mm, Cut	11	kJ/m²	ISO 179/1eA
<b>THERMAL</b>			
HDT, 0.45 MPa, 3.2 mm	159	°C	ASTM D648
HDT, 1.82 MPa, 3.2 mm	150	°C	ASTM D648
CLTE, -30C to 100°C, flow	5	µm/mK	ISO 11359-2
CLTE, -30C to 100°C, xflow	160	µm/mK	ISO 11359-2
Vicat Softening 10N, 50°C/hr	164	°C	ISO 306
HDT 0.45 MPa, 80*10*4mm, Cut	160	°C	ISO 75-1&2
HDT 1.8 MPa, 80*10*4mm, Cut	150	°C	ISO 75-1&2
<b>PHYSICAL</b>			
Specific Gravity	1.12	-	ASTM D792
Mold Shrinkage, 48 hrs @ 23°C, flow	0.4	%	SABIC method
Mold Shrinkage, 48 hrs @ 23°C, xflow	0.7	%	SABIC method
Density	1.12	g/cm³	ISO 1183
Melt Flow Rate, 230°C/2.16 kg	12	g/10 min	ISO 1133



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
INJECTION MOLDING			
Drying Temperature	80 – 100	°C	
Drying Time	2 – 4	Hrs	
Melt Temperature	210 – 270	°C	
Nozzle Temperature	210 – 270	°C	
Front - Zone 3 Temperature	210 – 270	°C	
Middle - Zone 2 Temperature	200 – 250	°C	
Rear - Zone 1 Temperature	190 – 230	°C	
Mold Temperature	15 – 60	°C	
Back Pressure	1 – 1.5	MPa	

## 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.

## DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.