

SABIC® PPCOMPOUND G3230A

REGION AMERICAS

DESCRIPTION

SABIC® PPCOMPOUND G3230A is a general purpose, 30% glass filled, chemically coupled, heat stabilized homopolymer polypropylene compound. The IMDS ID is 109612410

TYPICAL PROPERTY VALUES

Revision 20170706

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 50 mm/min	83	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	2.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	6580	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	5120	MPa	ASTM D 790
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
IMPACT			
Izod Impact, unnotched, 23°C, 63.5*12.7*3.2mm, Cut	568	J/m	ASTM D 4812
Izod Impact, notched, 23°C, 63.5*12.7*3.2mm, Cut	81	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s	7	J	ASTM D 3763
Izod Impact, notched, 23°C, 80*10*4mm, Cut	10	kJ/m ²	ISO 180/1A
Izod Impact, notched, -30°C, 80*10*4mm, Cut	10	kJ/m ²	ISO 180/1A
Charpy Impact, notched, 23°C, 80*10*4mm, Cut	10	kJ/m ²	ISO 179/1eA
Charpy Impact, notched, -30°C, 80*10*4mm, Cut	11	kJ/m ²	ISO 179/1eA
THERMAL			
HDT, 0.45 MPa, 3.2 mm	159	°C	ASTM D 648
HDT, 1.82 MPa, 3.2 mm	150	°C	ASTM D 648
CLTE, -30C to 100°C, flow	5	?m/mK	ISO 11359-2
CLTE, -30C to 100°C, xflow	160	?m/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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT 1.8 MPa, 80*10*4mm, Cut	150	°C	ISO 75-1&2
PHYSICAL			
Specific Gravity	1.12	-	ASTM D 792
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/cm ³	ISO 1183
Melt Flow Rate, 230°C/2.16 kg	12	g/10 min	ISO 1133
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	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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