

SABIC® PPcompound G3230A

Polypropylene Homopolymer
Saudi Basic Industries Corporation (SABIC)

Message:

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

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
Features	Chemical coupling		
	Homopolymer		
	Thermal Stability		
Uses	General		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction: 23°C, 48 hours	0.70	%	Internal method
Flow direction: 23°C, 48 hours	0.40	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6590	MPa	ASTM D638
--	6500	MPa	ISO 527-2/1
Tensile Strength			
Fracture ²	83.0	MPa	ASTM D638
Fracture	85.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Fracture ³	2.7	%	ASTM D638
Fracture	3.3	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ⁴	5130	MPa	ASTM D790
64.0mm span ⁵	6600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C ⁶	11	kJ/m ²	ISO 179/1eA
23°C ⁷	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact			

23°C, 3.20 mm ⁸	81	J/m	ASTM D256
-30°C ⁹	11	kJ/m ²	ISO 180/1A
23°C ¹⁰	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact ¹¹ (23°C, 3.20 mm)	570	J/m	ASTM D4812
Instrumented Dart Impact ¹² (23°C, Energy at Peak Load)	7.65	J	ASTM D3763
Dart Drop Impact ¹³ (23°C)	0.520	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	159	°C	ASTM D648
0.45 MPa, not annealed ¹⁴	160	°C	ISO 75-2/B
1.8 MPa, unannealed, 3.20mm	150	°C	ASTM D648
1.8 MPa, not annealed ¹⁵	150	°C	ISO 75-2/A
Vicat Softening Temperature	164	°C	ISO 306/A50
Coefficient of Linear Thermal Expansion			ISO 11359-2
Flow: -30 to 100°C	5.60	µm/Mk	ISO 11359-2
Transverse: -30 to 100°C	160	µm/Mk	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 100	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	190 - 230	°C	
Middle Temperature	200 - 250	°C	
Front Temperature	210 - 270	°C	
Nozzle Temperature	210 - 270	°C	
Processing (Melt) Temp	210 - 270	°C	
Mold Temperature	15.0 - 60.0	°C	
Back Pressure	1.00 - 1.50	MPa	
NOTE			
1.	50 mm/min		
2.	Type 1, 50mm/min		
3.	Type 1, 50mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	80*10*4mm, Cut		
7.	80*10*4 mm, Cut		
8.	63.5*12.7*3.2mm, Cut		
9.	80*10*4mm, Cut		
10.	80*10*4mm, Cut		
11.	63.5*12.7*3.2mm, Cut		
12.	2.20 m/sec		
13.	0.625"d tup		
14.	80*10*4mm, Cut		

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