

SABIC® PPcompound G3220A

Polypropylene

SABIC Innovative Plastics

Message:

SABIC® PPcompound G3220A is a 20% short glass fiber reinforced Polypropylene for unter-the-hood and structural applications. The base material is a PP homopolymer. 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 G3220A is a designated automotive grade.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Chemically Coupled		
	Fast Molding Cycle		
	Homopolymer		
Uses	Automotive Applications		
	Automotive Under the Hood		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	17	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	4900	MPa	ISO 527-2/1A/5
Tensile Stress (Break, 4.00 mm, Injection Molded)	80.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 4.00 mm, Injection Molded)	3.3	%	ISO 527-2/1A/5
Flexural Modulus ¹ (Injection Molded)	4500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C, Injection Molded)	46	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C, Injection Molded)	9.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	150	°C	ISO 75-2/A
CLTE - Flow			ASTM D696

-30 to 30°C	5.2E-5	cm/cm/°C
23 to 80°C	5.7E-5	cm/cm/°C
NOTE		
1.	3-point loading	

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