

SABIC® PPcompound G3240A

Polypropylene Homopolymer
Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound G3240A is a 40% short glass fiber reinforced Polypropylene for unter-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
SABIC® PPcompound G3240A is a designated automotive grade.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Chemically Coupled		
	Homopolymer		
Uses	Automotive Applications		
	Automotive Under the Hood		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	0.60	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	8900	MPa	ISO 527-2/1A/5
Tensile Stress (Break, 4.00 mm, Injection Molded)	111	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 4.00 mm, Injection Molded)	2.9	%	ISO 527-2/1A/5
Flexural Modulus ¹ (Injection Molded)	8900	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)	10	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	161	°C	ISO 75-2/B
1.8 MPa, Unannealed	153	°C	ISO 75-2/A

CLTE - Flow		ASTM D696
-30 to 30°C	4.1E-5	cm/cm/°C
23 to 80°C	4.3E-5	cm/cm/°C
NOTE		

1. Method I (3 point load)

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