

SABIC® PPcompound G3135X

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound G3135X is a 35% short glass fiber reinforced Polypropylene. This material has been designed for high stiffness, high impact, high heat resistance and chemical resistance. The glass fibres are chemically coupled to the PP matrix. Typical application of this material would include air inlet manifolds. The material is available in standard black.

SABIC® PPcompound G3135X is a designated automotive grade.

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Features	Chemically Coupled		
	Good Chemical Resistance		
	High Heat Resistance		
	High Impact Resistance		
	High Stiffness		
Uses	Automotive Applications		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	0.40	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1A/5
23°C, 4.00 mm, Injection Molded	7700	MPa	
80°C, 4.00 mm, Injection Molded	4300	MPa	
Tensile Stress (Break, 4.00 mm, Injection Molded)	107	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 4.00 mm, Injection Molded)	4.0	%	ISO 527-2/1A/5
Flexural Modulus ¹ (Injection Molded)	8100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C, Injection Molded)	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B

1.8 MPa, Unannealed	152	°C	ISO 75-2/A
NOTE			

1. 3-point loading

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Recommended distributors for this material

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