

SABIC® PPcompound 3020B

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 3020B is a 20% talc-filled Polypropylene. The material's high modulus and its thermal and UV stabilization makes it suitable for exterior applications, like cowl top panels.

SABIC® PPcompound 3020B is a designated automotive grade.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Good Thermal Stability		
	Good UV Resistance		
Uses	Automotive Applications		
	Automotive Exterior Parts		
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)	12	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	1.1	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	72		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	29.0	MPa	
Break, 3.20 mm, Injection Molded	27.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	30	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	2500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	4.4	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	2.2	kJ/m ²	
0°C, Injection Molded	2.7	kJ/m ²	
23°C, Injection Molded	3.1	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	120	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	5.0E-5	cm/cm/°C	
23 to 80°C	1.0E-4	cm/cm/°C	

NOTE

- Method I (3 point load)

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Recommended distributors for this material

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