

SABIC® PPcompound 5020

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 5020 is a modified Polypropylene which combines high impact, good stiffness and high flow. This material is available in natural and colored form for use in automotive interior applications.

SABIC® PPcompound 5020 is a designated automotive grade.

General Information			
Additive	Impact Modifier		
Features	Good Stiffness		
	High Flow		
	High Impact Resistance		
	Impact Modified		
Uses	Automotive Applications		
	Automotive Interior Parts		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	1.4	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	19.0	MPa	
Break, 3.20 mm, Injection Molded	14.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	40	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	1050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	45	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength			ISO 180/4A

-20°C, Injection Molded	7.0	kJ/m ²	
23°C, Injection Molded	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
CLTE - Flow			ASTM D696
-30 to 30°C	1.0E-4	cm/cm/°C	
23 to 80°C	1.4E-4	cm/cm/°C	
NOTE			

1. Method I (3 point load)

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Recommended distributors for this material

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