

SABIC® PPcompound 9180

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 9180 is an elastomer-modified mineral filled Polypropylene for automotive interior applications. This material has been designed to combine a good performance profile with good processing.

SABIC® PPcompound 9180 is a designated automotive grade.

General Information			
Filler / Reinforcement	Mineral		
Additive	Impact Modifier		
Features	Good Processability		
	Impact Modified		
Uses	Automotive Applications		
	Automotive Interior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	24	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	0.90	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/1A/50
Yield, Injection Molded	25.0	MPa	
Break, Injection Molded	15.0	MPa	
Tensile Strain (Break, Injection Molded)	35	%	ISO 527-2/1A/50
Flexural Modulus ¹ (Injection Molded)	2050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	20	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	5.0	kJ/m ²	
0°C, Injection Molded	10	kJ/m ²	
23°C, Injection Molded	25	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	110	°C	ISO 75-2/B
CLTE - Flow			ASTM D696
-30 to 30°C	6.0E-5	cm/cm/°C	

23 to 80°C	9.0E-5	cm/cm/°C
NOTE		

1. Method I (3 point load)

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Recommended distributors for this material


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