

# SABIC® PPcompound 15T1020

Polypropylene Homopolymer

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® PPcompound 15T1020 is a 20% talc-filled polypropylene homopolymer. The materials high modulus and good thermal stabilization makes it suited for applications under the bonnet such as heating, ventilation and air conditioning housings.

SABIC® PPcompound 15T1020 is a designated automotive grade.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Good Thermal Stability		
	Homopolymer		
Uses	Automotive Applications		
	Automotive Under the Hood		
	Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	1.2	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	75		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	37.0	MPa	
Break, 3.20 mm, Injection Molded	29.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	50	%	ISO 527-2/5/50
Flexural Modulus <sup>1</sup> (Injection Molded)	2700	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	3.4	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (-40°C, Injection Molded)	14	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	2.2	kJ/m <sup>2</sup>	
0°C, Injection Molded	2.7	kJ/m <sup>2</sup>	

23°C, Injection Molded	3.4	kJ/m <sup>2</sup>	
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			

1. Method I (3 point load)

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