

SABIC® PPcompound 55T1030S

Polypropylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 55T1030S is a Polypropylene copolymer with 30% talcum. It is especially suited for applications that require an exceptional stiffness combined with a high impact resistance (even at low temperatures) like dashboard carriers and other dashboard components that are exposed to high temperatures.

SABIC® PPcompound 55T1030 is a designated automotive grade.

General Information			
Filler / Reinforcement	Talc,30% Filler by Weight		
Features	Copolymer		
	Good Stiffness		
	High Impact Resistance		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
	Automotive Instrument Panel		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage (24 hr)	1.0	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	24.0	MPa	
Break, 3.20 mm, Injection Molded	18.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	80	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	2200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (-40°C, Injection Molded)	13	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	3.5	kJ/m ²	

0°C, Injection Molded	6.0	kJ/m²	
23°C, Injection Molded	13	kJ/m²	
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	6.0E-5	cm/cm/°C	
23 to 80°C	7.0E-5	cm/cm/°C	
NOTE			
1.	Method I (3 point load)		

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