

SABIC® PPcompound 37T1020

Polypropylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 37T1020 is a high flow copolymer with 20% talc, offering an excellent balance between stiffness and impact resistance. It has been specially developed for automotive interior parts such as column cladding and door panels.

SABIC® PPcompound 37T1020 is a designated automotive grade.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Copolymer		
	High Flow		
Uses	Automotive Applications		
	Automotive Interior 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)	13	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)	71		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/5/50
Yield, 3.20 mm, Injection Molded	28.0	MPa	
Break, 3.20 mm, Injection Molded	25.0	MPa	
Tensile Strain (Break, 3.20 mm, Injection Molded)	45	%	ISO 527-2/5/50
Flexural Modulus ¹ (Injection Molded)	2350	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	6.3	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (-40°C, Injection Molded)	18	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/4A
-20°C, Injection Molded	3.0	kJ/m ²	
0°C, Injection Molded	3.5	kJ/m ²	
23°C, Injection Molded	5.7	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	110	°C	ISO 75-2/B
Vicat Softening Temperature	145	°C	ISO 306/A
CLTE - Flow			ASTM D696
-30 to 30°C	8.0E-5	cm/cm/°C	
23 to 80°C	1.1E-4	cm/cm/°C	
NOTE			
1.	Method I (3 point load)		

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