

SABIC® PPcompound 31T1010 resin

Polypropylene

SABIC Innovative Plastics

Message:

SABIC® PPcompound 31T1010 is a 10% talc-filled polypropylene copolymer for general purpose applications.

General Information			
Filler / Reinforcement	Talc, 10% Filler by Weight		
Features	Copolymer		
Uses	General Purpose		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ISO 1133
Molding Shrinkage - Flow (24 hr)	1.4	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1620	MPa	ISO 527-2/1
Tensile Stress			
Yield	23.0	MPa	ISO 527-2/50
Break	14.0	MPa	ISO 527-2/1A/50
Tensile Strain (Break)	51	%	ISO 527-2/50
Flexural Modulus ¹ (64.0 mm Span)	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ²			ISO 180/1A
-20°C	6.0	kJ/m ²	
0°C	8.0	kJ/m ²	
23°C	9.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³			
0.45 MPa, Unannealed	107	°C	ISO 75-2/B
1.8 MPa, Unannealed	58.0	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion - Flow (-30 to 100°C)	84.0	µm/Mk	ISO 11359-2
Filler Content	10	%	ASTM D229
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	190 to 230	°C	
Middle Temperature	200 to 250	°C	
Front Temperature	210 to 270	°C	

Nozzle Temperature	210 to 270	°C
Processing (Melt) Temp	210 to 270	°C
Mold Temperature	15.0 to 60.0	°C
Back Pressure	1.00 to 1.50	MPa

NOTE		
1.	2.0 mm/min	
2.	80*10*3	
3.	80*10*4mm, Cut	

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