

SABIC® PPcompound 55T1030

Polypropylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPCOMPOUND 55T1030 is a general purpose, talc filled, heat stabilized copolymer polypropylene compound. This compound exhibits very high impact, and is suitable for multiple processing methods, including injection molding. The IMDS ID is 16160823.

General Information			
Filler / Reinforcement	Talc filler		
Additive	heat stabilizer		
Features	Copolymer		
	Impact resistance, high		
	Thermal Stability		
	General		
Uses	General		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.14	g/cm ³	ASTM D792
--	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2090	MPa	ASTM D638
--	2520	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	21.0	MPa	ASTM D638
Yield	24.0	MPa	ISO 527-2/50
Fracture ³	16.0	MPa	ASTM D638
Fracture	18.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ⁴	3.4	%	ASTM D638
Yield	3.4	%	ISO 527-2/50
Fracture ⁵	46	%	ASTM D638
Fracture	80	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ⁶	2300	MPa	ASTM D790

64.0mm span ⁷	2810	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C ⁸	1.7	kJ/m ²	ISO 179/1eA
23°C ⁹	13	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.20 mm ¹⁰	140	J/m	ASTM D256
-30°C ¹¹	3.2	kJ/m ²	ISO 180/1A
0°C ¹²	6.0	kJ/m ²	ISO 180/1A
23°C ¹³	13	kJ/m ²	ISO 180/1A
Unnotched Izod Impact ¹⁴ (23°C, 3.20 mm)	1100	J/m	ASTM D4812
Instrumented Dart Impact ¹⁵ (23°C, Energy at Peak Load)	18.7	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	114	°C	ASTM D648
0.45 MPa, not annealed ¹⁶	120	°C	ISO 75-2/B
1.8 MPa, unannealed, 3.20mm	60.0	°C	ASTM D648
1.8 MPa, not annealed ¹⁷	64.0	°C	ISO 75-2/A
Vicat Softening Temperature	150	°C	ISO 306/A50
Coefficient of Linear Thermal Expansion			ISO 11359-2
Flow: -30 to 100°C	63.7	µm/Mk	ISO 11359-2
Transverse: -30 to 100°C	94.0	µm/Mk	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 100	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	190 - 230	°C	
Middle Temperature	200 - 250	°C	
Front Temperature	210 - 270	°C	
Nozzle Temperature	210 - 270	°C	
Processing (Melt) Temp	210 - 270	°C	
Mold Temperature	15.0 - 60.0	°C	
Back Pressure	1.00 - 1.50	MPa	
NOTE			
1.	50 mm/min		
2.	Type 1, 50mm/min		
3.	Type 1, 50mm/min		
4.	Type 1, 50mm/min		
5.	Type 1, 50mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	80*10*4mm, Cut		

9.	80*10*4 mm, Cut
10.	63.5*12.7*3.2mm, Cut
11.	80*10*4mm, Cut
12.	80*10*4mm, Cut
13.	80*10*4mm, Cut
14.	63.5*12.7*3.2mm, Cut
15.	2.20 m/sec
16.	80*10*4mm, Cut
17.	80*10*4mm, Cut

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