

SABIC® PPcompound 37T1020

Polypropylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPCOMPOUND 37T1020 is a general purpose, talc filled, heat stabilized copolymer polypropylene compound. This compound exhibits high impact and high flow, and is suitable for injection molding applications. The IMDS ID is 16161338.

General Information			
Filler / Reinforcement	Talc filler		
Additive	heat stabilizer		
Features	Copolymer		
	Impact resistance, high		
	High liquidity		
	Thermal Stability		
	General		
Uses	General		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm ³	ASTM D792
--	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2450	MPa	ASTM D638
--	2760	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	25.0	MPa	ASTM D638
Yield	28.0	MPa	ISO 527-2/50
Fracture ³	17.0	MPa	ASTM D638
Fracture	25.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ⁴	3.7	%	ASTM D638
Yield	3.5	%	ISO 527-2/50
Fracture ⁵	33	%	ASTM D638
Fracture	45	%	ISO 527-2/50
Flexural Modulus			

64.0mm span ⁶	2840	MPa	ISO 178
50.0mm span ⁷	2350	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C ⁸	1.4	kJ/m ²	ISO 179/1eA
23°C ⁹	3.3	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.20 mm ¹⁰	52	J/m	ASTM D256
-30°C ¹¹	1.7	kJ/m ²	ISO 180/1A
0°C ¹²	3.5	kJ/m ²	ISO 180/1A
23°C ¹³	3.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact ¹⁴ (23°C, 3.20 mm)	850	J/m	ASTM D4812
Instrumented Dart Impact ¹⁵ (23°C, Energy at Peak Load)	3.93	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	116	°C	ASTM D648
0.45 MPa, not annealed ¹⁶	110	°C	ISO 75-2/B
1.8 MPa, unannealed, 3.20mm	60.0	°C	ASTM D648
1.8 MPa, not annealed ¹⁷	69.0	°C	ISO 75-2/A
Vicat Softening Temperature	145	°C	ISO 306/A50
Coefficient of Linear Thermal Expansion			ISO 11359-2
Flow: -30 to 100°C	66.6	µm/Mk	ISO 11359-2
Transverse: -30 to 100°C	128	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.	2.0 mm/min		
7.	1.3 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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