

SABIC® PPcompound 19T1020

Polypropylene
SABIC Innovative Plastics

Message:

SABIC® PPCOMPOUND 19T1020 is a general purpose, talc filled, heat stabilized homopolymer polypropylene compound. This compound exhibits high flow and is suitable for injection molding applications. The IMDS ID is 163255030.

General Information			
Filler / Reinforcement	Talc		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Flow		
	Homopolymer		
Uses	General Purpose		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 23°C, 48 hr	1.3	%	
Flow : 23°C, 48 hr	0.95	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	74		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2970	MPa	ASTM D638
--	3210	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	36.0	MPa	ASTM D638
Yield	36.0	MPa	ISO 527-2/50
Break ³	29.0	MPa	ASTM D638
Break	32.7	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ⁴	5.0	%	ASTM D638
Yield	4.5	%	ISO 527-2/50
Break ⁵	21	%	ASTM D638
Break	11	%	ISO 527-2/50
Flexural Modulus			
50.0 mm Span ⁶	2500	MPa	ASTM D790

64.0 mm Span ⁷	3180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C ⁸	1.1	kJ/m ²	
23°C ⁹	2.5	kJ/m ²	
Notched Izod Impact			
23°C, 3.20 mm ¹⁰	22	J/m	ASTM D256
-30°C ¹¹	1.3	kJ/m ²	ISO 180/1A
23°C ¹²	2.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact ¹³ (23°C, 3.20 mm)	410	J/m	ASTM D4812
Instrumented Dart Impact ¹⁴ (23°C, Energy at Peak Load)	3.30	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	129	°C	ASTM D648
0.45 MPa, Unannealed ¹⁵	128	°C	ISO 75-2/B
1.8 MPa, Unannealed, 3.20 mm	73.0	°C	ASTM D648
1.8 MPa, Unannealed ¹⁶	73.0	°C	ISO 75-2/A
Vicat Softening Temperature	157	°C	ISO 306/A50
Coefficient of Linear Thermal Expansion			ISO 11359-2
Flow : -30 to 100°C	58.3	µm/Mk	
Transverse : -30 to 100°C	115	µm/Mk	
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.	50 mm/min		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	Type I, 50 mm/min		
5.	Type I, 50 mm/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.	63.5*12.7*3.2mm, Cut
14.	2.20 m/sec
15.	80*10*4mm, Cut
16.	80*10*4mm, Cut

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