

SABIC® PPcompound 1920

Polypropylene
SABIC Innovative Plastics

Message:

SABIC® PPCOMPOUND 1920 is an FDA compliant, talc filled, heat stabilized homopolymer polypropylene compound. This compound exhibits high flow and is suitable for injection molding applications. The IMDS ID is 482238095

General Information			
Filler / Reinforcement	Talc		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Flow		
	Homopolymer		
Agency Ratings	FDA Unspecified Rating		
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			
64.0 mm Span ⁶	3180	MPa	ISO 178

50.0 mm Span ⁷	2500	MPa	ASTM D790
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.	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.	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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