

SABIC® PPcompound 19T1040

Polypropylene Homopolymer
Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPCOMPOUND 19T1040 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 16488039.

General Information			
Filler / Reinforcement	Talc filler		
Additive	heat stabilizer		
Features	Homopolymer		
	High liquidity		
	Thermal Stability		
	General		
Uses	General		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.26	g/cm ³	ASTM D792
--	1.25	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3990	MPa	ASTM D638
--	5340	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	32.0	MPa	ASTM D638
Yield	30.0	MPa	ISO 527-2/50
Fracture ³	28.0	MPa	ASTM D638
Fracture	24.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ⁴	3.0	%	ASTM D638
Yield	2.3	%	ISO 527-2/50
Fracture ⁵	6.7	%	ASTM D638
Fracture	11	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ⁶	3600	MPa	ASTM D790

64.0mm span ⁷	5170	MPa	ISO 178
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	3.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.20 mm ¹⁰	3.8	J/m	ASTM D256
-30°C ¹¹	1.8	kJ/m ²	ISO 180/1A
0°C ¹²	1.6	kJ/m ²	ISO 180/1A
23°C ¹³	2.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact ¹⁴ (23°C, 3.20 mm)	200	J/m	ASTM D4812
Instrumented Dart Impact ¹⁵ (23°C, Energy at Peak Load)	4.90	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	134	°C	ASTM D648
0.45 MPa, not annealed ¹⁶	130	°C	ISO 75-2/B
1.8 MPa, unannealed, 3.20mm	78.0	°C	ASTM D648
1.8 MPa, not annealed ¹⁷	89.0	°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	48.2	µm/Mk	ISO 11359-2
Transverse: -30 to 100°C	101	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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