

SABIC® PPcompound 55T1040

Polypropylene
SABIC Innovative Plastics

Message:

SABIC® PPCOMPOUND 55T1040 is a general purpose, talc filled, heat stabilized copolymer polypropylene compound. This compound exhibits very high impact and high rigidity, and is suitable for injection molding applications. The IMDS ID is 278629571

General Information			
Filler / Reinforcement	Talc		
Additive	Heat Stabilizer		
Features	Copolymer		
	Heat Stabilized		
	High Impact Resistance		
	High Rigidity		
Uses	General Purpose		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.7	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2460	MPa	ISO 527-2/1
Tensile Stress			
Yield	20.0	MPa	ISO 527-2/50
Break	14.8	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/50
Yield	3.0	%	
Break	11	%	
Flexural Modulus ¹ (64.0 mm Span)	3280	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C ²	2.0	kJ/m ²	
23°C ³	8.2	kJ/m ²	
Notched Izod Impact Strength ⁴			ISO 180/1A
-30°C	2.7	kJ/m ²	
23°C	7.9	kJ/m ²	
Instrumented Dart Impact ⁵ (23°C, Energy at Peak Load)	10.6	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			

0.45 MPa, Unannealed	70.4	°C	ISO 75-2/B
1.8 MPa, Unannealed	125	°C	ISO 75-2/A
Vicat Softening Temperature	142	°C	ISO 306/A50
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.	2.0 mm/min		
2.	80*10*4mm, Cut		
3.	80*10*4 mm, Cut		
4.	80*10*4mm, Cut		
5.	2.20 m/sec		
6.	80*10*4mm, Cut		

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