

SABIC® PPcompound 9712

Polypropylene

SABIC Innovative Plastics

Message:

SABIC® PPCOMPOUND 9712 is a mineral filled, impact modified polypropylene TPO. This material combines high impact resistance, scratch resistance, and heat stability with interior automotive UV stability. This material can exhibit ductility at temperatures as low as -30 degrees C. The IMDS is 164207488.

General Information			
Filler / Reinforcement	Mineral		
Additive	Impact Modifier		
Features	Ductile		
	Good Thermal Stability		
	Good UV Resistance		
	High Impact Resistance		
	Impact Modified		
	Scratch Resistant		
Uses	Automotive Interior Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.04	g/cm ³	ASTM D792
--	1.03	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1860	MPa	ISO 527-2/1
Tensile Stress			
Yield	22.0	MPa	ISO 527-2/50
Break	15.7	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/50
Yield	5.0	%	
Break	65	%	
Flexural Modulus ¹ (64.0 mm Span)	2100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C ²	3.1	kJ/m ²	
23°C ³	34	kJ/m ²	
Notched Izod Impact Strength ⁴			ISO 180/1A
-30°C	4.5	kJ/m ²	
23°C	33	kJ/m ²	

Instrumented Dart Impact ⁵			ASTM D3763
-30°C, Energy at Peak Load	22.9	J	
23°C, Energy at Peak Load	19.3	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, Unannealed	103	°C	ISO 75-2/B
1.8 MPa, Unannealed	58.0	°C	ISO 75-2/A
Vicat Softening Temperature	136	°C	ISO 306/A50
Coefficient of Linear Thermal Expansion			ISO 11359-2
Flow : -30 to 100°C	58.0	µm/Mk	
Transverse : -30 to 100°C	150	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.	2.0 mm/min		
2.	80*10*4mm, Cut		
3.	80*10*4 mm, Cut		
4.	80*10*4mm, Cut		
5.	6.60 m/sec		
6.	80*10*4mm, Cut		

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