

SABIC® PPcompound 5310

Polypropylene

SABIC Innovative Plastics

Message:

SABIC® PPCOMPOUND 5310 is a mineral filled, impact modified polypropylene TPO. This material combines scratch resistance and heat stability with exterior automotive weathering stability. The IMDS ID is 209727767.

General Information			
Filler / Reinforcement	Mineral		
Additive	Impact Modifier		
Features	Good Thermal Stability		
	Good Weather Resistance		
	Impact Modified		
	Scratch Resistant		
Uses	Automotive Applications		
	Automotive Exterior Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.958	g/cm ³	ASTM D792
--	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1310	MPa	ISO 527-2/1
Tensile Stress			
Yield	21.0	MPa	ISO 527-2/50
Break	14.6	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/50
Yield	5.4	%	
Break	60	%	
Flexural Modulus ¹ (64.0 mm Span)	1310	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C ²	3.3	kJ/m ²	
23°C ³	17	kJ/m ²	
Notched Izod Impact Strength ⁴			ISO 180/1A
-30°C	3.8	kJ/m ²	
23°C	27	kJ/m ²	

Instrumented Dart Impact ⁵			ASTM D3763
-30°C, Energy at Peak Load	23.9	J	
23°C, Energy at Peak Load	17.4	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, Unannealed	92.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature	133	°C	ISO 306/A50
Coefficient of Linear Thermal Expansion			ISO 11359-2
Flow : -30 to 100°C	99.9	µm/Mk	
Transverse : -30 to 100°C	162	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.	2.20 m/sec		
6.	80*10*4mm, Cut		

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