

SABIC® PPcompound 7985

Polypropylene

SABIC Innovative Plastics

Message:

SABIC® PPCOMPOUND 7985 is a mineral filled, impact modified polypropylene TPO. This material combines scratch resistance and heat stability with interior automotive UV stability. The IMDS is 209747565.

General Information			
Filler / Reinforcement	Mineral		
Additive	Impact Modifier		
Features	Good Thermal Stability		
	Good UV Resistance		
	Impact Modified		
	Scratch Resistant		
Uses	Automotive Applications		
	Automotive Interior Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.02	g/cm ³	ASTM D792
--	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	21	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 80°C, 1 hr	1.4	%	
Across Flow : 23°C, 48 hr	1.2	%	
Flow : 80°C, 1 hr	1.0	%	
Flow : 23°C, 48 hr	0.80	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2780	MPa	ASTM D638
--	2190	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	27.0	MPa	ASTM D638
Yield	27.0	MPa	ISO 527-2/50
Break ³	20.0	MPa	ASTM D638
Break	20.0	MPa	ISO 527-2/1A/50

Tensile Elongation			
Yield ⁴	5.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/50
Break ⁵	22	%	ASTM D638
Break	14	%	ISO 527-2/50
Flexural Modulus			
50.0 mm Span ⁶	1940	MPa	ASTM D790
64.0 mm Span ⁷	2220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C ⁸	2.4	kJ/m ²	
0°C ⁹	2.5	kJ/m ²	
23°C ¹⁰	6.5	kJ/m ²	
Notched Izod Impact			
23°C, 3.20 mm ¹¹	45	J/m	ASTM D256
-30°C ¹²	2.2	kJ/m ²	ISO 180/1A
0°C ¹³	2.8	kJ/m ²	ISO 180/1A
23°C ¹⁴	4.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact ¹⁵ (23°C, 3.20 mm)	1100	J/m	ASTM D4812
Instrumented Dart Impact ¹⁶			ASTM D3763
-30°C, Energy at Peak Load	2.60	J	
0°C, Energy at Peak Load	7.60	J	
23°C, Energy at Peak Load	22.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	114	°C	ASTM D648
0.45 MPa, Unannealed ¹⁷	108	°C	ISO 75-2/B
1.8 MPa, Unannealed, 3.20 mm	60.0	°C	ASTM D648
1.8 MPa, Unannealed ¹⁸	61.0	°C	ISO 75-2/A
Vicat Softening Temperature	144	°C	ISO 306/A50
Coefficient of Linear Thermal Expansion			ISO 11359-2
Flow : -30 to 100°C	7.50	µm/Mk	
Transverse : -30 to 100°C	18.0	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.	1.3 mm/min	
7.	2.0 mm/min	
8.	80*10*4mm, Cut	
9.	80*10*4 mm, Cut	
10.	80*10*4 mm, Cut	
11.	63.5*12.7*3.2mm, Cut	
12.	80*10*4mm, Cut	
13.	80*10*4mm, Cut	
14.	80*10*4mm, Cut	
15.	63.5*12.7*3.2mm, Cut	
16.	6.60 m/sec	
17.	80*10*4mm, Cut	
18.	80*10*4mm, Cut	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

