

SABIC® PPcompound 7727

Polypropylene

SABIC Innovative Plastics

Message:

SABIC® PPCOMPOUND 7727 is a mineral filled, impact modified polypropylene TPO. This material combines impact resistance, heat stability, and is used in injection molded applications. The IMDS ID is 209708556.

General Information			
Filler / Reinforcement	Mineral		
Additive	Impact Modifier		
Features	Good Thermal Stability		
	High Impact Resistance		
	Impact Modified		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.998	g/cm ³	ASTM D792
--	0.990	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	23	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1960	MPa	ISO 527-2/1
Tensile Stress			
Yield	25.0	MPa	ISO 527-2/50
Break	18.3	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/50
Yield	4.6	%	
Break	27	%	
Flexural Modulus ¹ (64.0 mm Span)	2060	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	4.6	kJ/m ²	ISO 179/1eA
Instrumented Dart Impact ³ (23°C, Energy at Peak Load)	21.1	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed	114	°C	ISO 75-2/B
1.8 MPa, Unannealed	62.7	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion			ISO 11359-2
Flow : -30 to 100°C	56.4	µm/Mk	
Transverse : -30 to 100°C	116	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*4 mm, Cut
3. 6.60 m/sec
4. 80*10*4mm, Cut

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