

LNP™ THERMOCOMP™ ZX08309 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics Asia Pacific

Message:

This material is mineral filled PPO grade with high dielectric constant and low loss tangent

General Information			
Filler / Reinforcement	Mineral		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.66	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	11.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.70	%	
Across Flow : 24 hr	0.65	%	
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus ¹	3200 to 3500	MPa	ISO 178
Flexural Strength ² (Break, 50.0 mm Span)	90.0 to 100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	60	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	134	°C	
1.8 MPa, Unannealed, 3.20 mm	122	°C	
Electrical	Nominal Value		Test Method
Dielectric Constant (1.10 GHz)	4.40 to 4.60		ASTM E57-83
Dissipation Factor (1.10 GHz)	2.0E-3 to 4.0E-3		ASTM E57-83
Injection	Nominal Value	Unit	
Drying Temperature	105	°C	
Drying Time	3.0 to 5.0	hr	
Rear Temperature	280 to 285	°C	
Middle Temperature	290 to 295	°C	
Front Temperature	300 to 305	°C	
Nozzle Temperature	290 to 295	°C	
Processing (Melt) Temp	295 to 305	°C	
Mold Temperature	90.0	°C	
Back Pressure	9.00	MPa	
Screw Speed	100	rpm	
NOTE			

1.	2.0 mm/min
2.	1.3 mm/min

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Recommended distributors for this material

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