

LNP™ THERMOCOMP™ CF008 compound

High Impact Polystyrene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP CF008 is a compound based on Polystyrene resin containing 40% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound CF-1008

Product reorder name: CF008

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.070	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12800	MPa	ASTM D638
--	9640	MPa	ISO 527-2/1
Tensile Strength			
Break ²	57.0	MPa	ASTM D638
Break	55.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	0.73	%	ASTM D638
Break	0.62	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	11400	MPa	ASTM D790
-- ⁵	10300	MPa	ISO 178
Flexural Strength ⁶ (Break, 50.0 mm Span)	98.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	36	J/m	ASTM D256
23°C ⁷	3.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	100	J/m	ASTM D4812
23°C ⁸	6.9	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			

23°C, Total Energy	6.20	J	ASTM D3763
--	1.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	95.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	96.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	89.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	90.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	3.4E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	266 to 277	°C	
Processing (Melt) Temp	249	°C	
Mold Temperature	37.8 to 65.6	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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