

LNP™ THERMOCOMP™ GF004 compound

Polysulfone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP GF004 is a compound based on Polysulfone resin containing 20% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound GF-1004

Product reorder name: GF004

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.41	g/cm ³	ASTM D792
--	1.40	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.60	%	ASTM D955
Across Flow : 24 hr	0.90	%	ASTM D955
Across Flow : 24 hr	0.85	%	ISO 294-4
Flow : 24 hr	0.64	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	6210	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	91.7	MPa	
Break	91.7	MPa	
Tensile Elongation			ASTM D638
Yield	2.3	%	
Break	2.3	%	
Flexural Modulus			
--	6210	MPa	ASTM D790
--	6000	MPa	ISO 178
Flexural Strength			
--	138	MPa	ASTM D790
--	145	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ²	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	430	J/m	ASTM D4812

23°C ³	32	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	10.7	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	179	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	180	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	174	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	174	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	5.2E-5	cm/cm/°C	
Transverse : -40 to 40°C	2.5E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	327 to 338	°C	
Middle Temperature	338 to 349	°C	
Front Temperature	349 to 360	°C	
Processing (Melt) Temp	360 to 371	°C	
Mold Temperature	149	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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