

LNP™ THERMOCOMP™ GF004 compound

Polysulfone
SABIC Innovative Plastics

Message:

LNP THERMOCOMP GF004 is a compound based on Polysulfone resin containing Glass Fiber.
Also known as: LNP* THERMOCOMP* Compound GF-1004
Product reorder name: GF004

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
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 hours	0.60	%	ASTM D955
Transverse flow: 24 hours	0.90	%	ASTM D955
Vertical flow direction: 24 hours	0.85	%	ISO 294-4
Flow direction: 24 hours	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	ASTM D638
Fracture	91.7	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	2.3	%	ASTM D638
Fracture	2.3	%	ASTM D638
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, 3.20mm	179	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	180	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	174	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	174	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	5.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	2.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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

