

LNP™ THERMOCOMP™ GF006 compound

Polysulfone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP GF006 is a compound based on Polysulfone resin containing Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound GF-1006

Product reorder name: GF006

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 - 0.40	%	Internal method
Water Absorption (23°C, 24 hr)	0.26	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-2/1
Tensile Stress (Yield)	118	MPa	ISO 527-2/5
Tensile Strain (Break)	1.6	%	ISO 527-2/5
Flexural Modulus ¹	8900	MPa	ISO 178
Flexural Stress	165	MPa	ISO 178
Flexural Strain at Break ²	2.2	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C)	8.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 64.0mm span	184	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	182	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	2.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	5.9E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Test Method	
Flame Rating (1.60 mm, Testing by SABIC)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	327 - 338	°C	
Middle Temperature	338 - 349	°C	

Front Temperature	349 - 360	°C
Processing (Melt) Temp	360 - 371	°C
Mold Temperature	149	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 2 mm/min |
| 3. | 80*10*4 |
| 4. | 80*10*4 |
| 5. | 80*10*4 mm |

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