

LNP™ THERMOCOMP™ GF006 compound

Polysulfone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* GF006 is a compound based on Polysulfone resin containing 30% Glass Fiber.

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

Product reorder name: GF006

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.60	%	ASTM D955
Across Flow : 24 hr	0.58	%	ISO 294-4
Flow : 24 hr	0.22	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.20	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8830	MPa	ASTM D638
--	8430	MPa	ISO 527-2/1
Tensile Strength			
Break	105	MPa	ASTM D638
Break	100	MPa	ISO 527-2
Tensile Elongation			
Break	2.0	%	ASTM D638
Break	1.9	%	ISO 527-2
Flexural Modulus			
--	8270	MPa	ASTM D790
--	8390	MPa	ISO 178
Flexural Strength			
--	157	MPa	ASTM D790
--	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	64	J/m	ASTM D256
23°C ²	7.3	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	420	J/m	ASTM D4812
23°C ³	27	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.90	J	ASTM D3763
--	2.96	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	181	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	182	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	3.6E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	3.7E-5	cm/cm/°C	ISO 11359-2
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		

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