

LNP™ THERMOCOMP™ LF008 compound

Polyetheretherketone
SABIC Innovative Plastics

Message:

LNP THERMOCOMP LF008 is a compound based on Polyetheretherketone resin containing Glass Fiber.
Also known as: LNP* THERMOCOMP* Compound LF-1008
Product reorder name: LF008

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.61	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.50 - 0.70	%	ASTM D955
Transverse flow: 24 hours	1.0 - 3.0	%	ASTM D955
Vertical flow direction: 24 hours	1.1	%	ISO 294-4
Flow direction: 24 hours	6.4	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13800	MPa	ASTM D638
--	12800	MPa	ISO 527-2/1
Tensile Strength			
Yield	2.07	MPa	ASTM D638
Yield	156	MPa	ISO 527-2
Fracture	154	MPa	ASTM D638
Fracture	155	MPa	ISO 527-2
Tensile Elongation			
Yield	2.4	%	ASTM D638
Yield	2.3	%	ISO 527-2
Fracture	2.4	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	9650	MPa	ASTM D790
--	10400	MPa	ISO 178
Flexural Strength			
--	234	MPa	ASTM D790
--	240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	69	J/m	ASTM D256
23°C ²	7.6	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	810	J/m	ASTM D4812
23°C ³	54	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	13.6	J	ASTM D3763
--	3.68	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	261	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	3.6E-6	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	4.0E-6	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	1.8E-6	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	2.0E-6	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	349 - 360	°C	
Middle Temperature	366 - 377	°C	
Front Temperature	382 - 393	°C	
Processing (Melt) Temp	382 - 388	°C	
Mold Temperature	138 - 166	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	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



WECHAT