

LNP™ THERMOCOMP™ LF008 compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LF008 is a compound based on Polyetheretherketone resin containing 40% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound LF-1008

Product reorder name: LF008

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
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 hr	0.50 to 0.70	%	ASTM D955
Across Flow : 24 hr	1.0 to 3.0	%	ASTM D955
Across Flow : 24 hr	1.1	%	ISO 294-4
Flow : 24 hr	0.64	%	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
Break	154	MPa	ASTM D638
Break	155	MPa	ISO 527-2
Tensile Elongation			
Yield	2.4	%	ASTM D638
Yield	2.3	%	ISO 527-2
Break	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
CLTE			ASTM E831
Flow : -40 to 40°C	1.7E-5	cm/cm/°C	
Transverse : -40 to 40°C	4.2E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	370 to 380	°C	
Middle Temperature	380 to 400	°C	
Front Temperature	380 to 400	°C	
Mold Temperature	175 to 190	°C	
Back Pressure	0.300 to 0.700	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	5.0 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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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



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