

LNP™ THERMOCOMP™ AF008 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP AF008 is a compound based on Acrylonitrile Butadiene Styrene resin containing 40% Glass Fiber.

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

Product reorder name: AF008

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.20 to 0.40	%	
Water Absorption			
24 hr, 50% RH	0.18	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11300	MPa	ASTM D638
--	10200	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	95.0	MPa	ASTM D638
Break ³	87.0	MPa	ASTM D638
Break	85.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁴	1.4	%	ASTM D638
Break	1.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	10700	MPa	ASTM D790
-- ⁶	10100	MPa	ISO 178
Flexural Stress			
--	132	MPa	ISO 178
Break, 50.0 mm Span ⁷	136	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	72	J/m	ASTM D256
23°C ⁸	7.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	300	J/m	ASTM D4812
23°C ⁹	18	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	10.2	J	ASTM D3763
--	2.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	105	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	105	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	101	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	101	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	5.6E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.2E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 to 0.10	%	
Rear Temperature	204 to 216	°C	
Middle Temperature	232 to 243	°C	
Front Temperature	266 to 277	°C	
Processing (Melt) Temp	260	°C	
Mold Temperature	71.1 to 82.2	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	1.3 mm/min		
6.	2.0 mm/min		
7.	1.3 mm/min		
8.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		
11.	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.

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

