

LNP™ THERMOCOMP™ AF004AH compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* AF004AH is a compound based on ABS resin containing 20% Glass Fiber. Added feature of this material is: Healthcare.

Also known as: LNP* THERMOCOMP* Compound AF-1004

Product reorder name: AF004AH

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.24	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.24	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.39	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6170	MPa	ASTM D638
--	6000	MPa	ISO 527-2/1
Tensile Strength			
Break ²	70.0	MPa	ASTM D638
Break	81.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.2	%	ASTM D638
Break	2.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	6150	MPa	ASTM D790
-- ⁵	5860	MPa	ISO 178
Flexural Stress			
--	123	MPa	ISO 178
Break, 50.0 mm Span ⁶	130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	80	J/m	ASTM D256
23°C ⁷	8.0	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	400	J/m	ASTM D4812
23°C ⁸	23	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	11.0	J	ASTM D3763
--	3.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	103	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	93.0	°C	ISO 75-2/Af
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
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.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		

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