

LNP™ THERMOCOMP™ AF002 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* AF002 is a compound based on ABS resin containing 10% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound AF-1002

Product reorder name: AF002

General Information			
UL YellowCard	E121562-101344528		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.38	%	ISO 294-4
Flow : 24 hr	0.41	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.38	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4140	MPa	ASTM D638
--	4200	MPa	ISO 527-2/1
Tensile Strength			
Break	66.9	MPa	ASTM D638
Break	64.9	MPa	ISO 527-2
Tensile Elongation			
Break	2.5	%	ASTM D638
Break	2.7	%	ISO 527-2
Flexural Modulus			
--	4210	MPa	ASTM D790
--	4500	MPa	ISO 178
Flexural Strength			
--	106	MPa	ASTM D790
--	108	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	80	J/m	ASTM D256
23°C ²	9.0	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	320	J/m	ASTM D4812
23°C ³	24	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	15.3	J	ASTM D3763
--	3.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	102	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	92.8	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	95.0	°C	ISO 75-2/Af
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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