

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. UL rating applicable for NC color only.

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

Product reorder name: AF002

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20 - 0.40	%	Internal method
Water Absorption (23°C, 24 hr)	0.33	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3600	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	54.0	MPa	ISO 527-2/5
Fracture	54.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	2.7	%	ISO 527-2/5
Fracture	2.8	%	ISO 527-2/5
Flexural Modulus ¹	3500	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	83.0	MPa	ISO 178
-- ⁴	59.0	MPa	ISO 178
Flexural Strain at Break ⁵	3.7	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁶ (23°C)	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	21	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, unannealed, 64.0mm span	102	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	95.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	6.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.2E-4	cm/cm/°C	ISO 11359-2
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 - 0.10	%
Rear Temperature	204 - 216	°C
Middle Temperature	232 - 243	°C
Front Temperature	266 - 277	°C
Processing (Melt) Temp	260	°C
Mold Temperature	71.1 - 82.2	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 2.0 mm/min |
| 3. | Yield |
| 4. | Break |
| 5. | 2 mm/min |
| 6. | 80*10*4 |
| 7. | 80*10*4 |
| 8. | 80*10*4 mm |

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