

LNP™ THERMOCOMP™ AB002 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP AB002 is a compound based on ABS resin containing 10% Glass Bead.

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

Product reorder name: AB002

General Information			
Filler / Reinforcement	Glass Bead,10% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density			
--	1.11	g/cm ³	ISO 1183
--	1.12	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.60 to 0.80	%	
Across Flow : 24 hr	0.80 to 1.0	%	
Water Absorption			
24 hr, 50% RH	0.22	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.36	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2760	MPa	ASTM D638
--	2600	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	35.0	MPa	ASTM D638
Yield	34.0	MPa	ISO 527-2/5
Break ³	32.0	MPa	ASTM D638
Break	30.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.3	%	ASTM D638
Yield	2.2	%	ISO 527-2/5
Break ⁵	29	%	ASTM D638
Break	24	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2590	MPa	ASTM D790
-- ⁷	2420	MPa	ISO 178
Flexural Stress			
--	60.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	64.0	MPa	ASTM D790

Break, 50.0 mm Span ⁹	63.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C ¹⁰	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	560	J/m	ASTM D4812
23°C ¹¹	34	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	13.0	J	ASTM D3763
--	2.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	93.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	92.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	81.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	79.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.9E-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.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	1.3 mm/min		
10.	80*10*4		

11.	80*10*4
12.	80*10*4 mm
13.	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

