

LNP™ THERMOCOMP™ WB006 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP WB006 is a compound based on Polybutylene Terephthalate resin containing Glass Bead.

Also known as: LNP* THERMOCOMP* Compound WB-1006

Product reorder name: WB006

General Information			
Filler / Reinforcement	Glass Bead		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.57	g/cm ³	ASTM D792
--	1.56	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 4.0	%	
Across Flow : 24 hr	1.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	0.050	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4080	MPa	ASTM D638
--	4210	MPa	ISO 527-2/1
Tensile Strength			
Break ²	54.0	MPa	ASTM D638
Break	54.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	4.2	%	ASTM D638
Yield	3.7	%	ISO 527-2/5
Break ⁴	5.6	%	ASTM D638
Break	4.4	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	3980	MPa	ASTM D790
-- ⁶	3600	MPa	ISO 178
Flexural Strength ⁷ (Break, 50.0 mm Span)	78.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	22	J/m	ASTM D256
23°C ⁸	2.6	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	170	J/m	ASTM D4812
23°C ⁹	12	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	4.00	J	ASTM D3763
--	0.900	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	186	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	170	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	106	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	93.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	7.4E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.1E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	82.2 to 98.9	°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.	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		

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