

LNP™ THERMOCOMP™ WFB62 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP WFB62 is a compound based on PBT resin containing 10% Glass Fiber, 30% Glass Bead. Added feature of this grade is: Low Warpage.

Also known as: LNP* THERMOCOMP* Compound WF-1008 MG

Product reorder name: WFB62

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
	Glass Fiber,10% Filler by Weight		
Features	Low Warpage		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.030	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6060	MPa	ASTM D638
--	6150	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	77.0	MPa	ASTM D638
Yield	77.0	MPa	ISO 527-2/5
Break ³	76.0	MPa	ASTM D638
Break	76.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.0	%	ASTM D638
Yield	3.0	%	ISO 527-2/5
Break ⁵	3.0	%	ASTM D638
Break	3.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	5730	MPa	ASTM D790
-- ⁷	5670	MPa	ISO 178
Flexural Stress			
--	126	MPa	ISO 178

Yield, 50.0 mm Span ⁸	130	MPa	ASTM D790
Break, 50.0 mm Span ⁹	128	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	30	J/m	ASTM D256
23°C ¹⁰	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	280	J/m	ASTM D4812
23°C ¹¹	17	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.00	J	ASTM D3763
--	1.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	216	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	207	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	185	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	167	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	5.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.9E-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.	5.0 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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