

LNP™ THERMOCOMP™ WF008 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP WF008 is a compound based on PBT resin containing 40% Glass Fiber.

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

Product reorder name: WF008

General Information			
UL YellowCard	E121562-101284452		
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.30 - 0.60	%	ASTM D955
Transverse flow: 24 hours	1.0 - 4.0	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.050	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12500	MPa	ASTM D638
--	13400	MPa	ISO 527-2/1
Tensile Strength			
Fracture ²	128	MPa	ASTM D638
Fracture	134	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ³	2.4	%	ASTM D638
Fracture	2.0	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁴	11900	MPa	ASTM D790
-- ⁵	11800	MPa	ISO 178
Flexural Strength ⁶ (Break, 50.0 mm Span)	190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	95	J/m	ASTM D256
23°C ⁷	9.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	620	J/m	ASTM D4812
23°C ⁸	39	kJ/m ²	ISO 180/1U

Instrumented Dart Impact			
23°C, Total Energy	14.1	J	ASTM D3763
--	2.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	208	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁹	215	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	222	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹⁰	220	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 30°C	3.2E-5	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	7.3E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 - 232	°C	
Middle Temperature	243 - 254	°C	
Front Temperature	260 - 271	°C	
Processing (Melt) Temp	238 - 266	°C	
Mold Temperature	82.2 - 98.9	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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