

LNP™ THERMOCOMP™ WF007 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP WF007 is a compound based on PBT resin containing 35% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound WF-1007

Product reorder name: WF007

General Information			
UL YellowCard	E121562-101284452		
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.50	%	
Across Flow : 24 hr	0.90 to 2.0	%	
Water Absorption			
24 hr, 50% RH	0.050	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	16900	MPa	ASTM D638
--	11000	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	121	MPa	ASTM D638
Yield	120	MPa	ISO 527-2/5
Break ³	121	MPa	ASTM D638
Break	120	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.0	%	ASTM D638
Yield	2.1	%	ISO 527-2/5
Break ⁵	2.0	%	ASTM D638
Break	2.1	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	9840	MPa	ASTM D790
-- ⁷	9890	MPa	ISO 178
Flexural Stress			
--	186	MPa	ISO 178
Yield, 50.0 mm Span ⁸	185	MPa	ASTM D790
Break, 50.0 mm Span ⁹	185	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	78	J/m	ASTM D256
23°C ¹⁰	7.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	620	J/m	ASTM D4812
23°C ¹¹	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	222	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	222	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	207	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	203	°C	ISO 75-2/Af
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.	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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