

LNP™ THERMOCOMP™ WF006 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* WF006 is a compound based on PBT resin containing 30% Glass Fiber.

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

Product reorder name: WF006

General Information			
UL YellowCard	E121562-101284452		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.30	%	
Across Flow : 24 hr	1.1	%	
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	10200	MPa	ASTM D638
--	11200	MPa	ISO 527-2/1
Tensile Strength			
Break	137	MPa	ASTM D638
Break	133	MPa	ISO 527-2
Tensile Elongation			
Break	2.9	%	ASTM D638
Break	2.5	%	ISO 527-2
Flexural Modulus			
--	9360	MPa	ASTM D790
--	9100	MPa	ISO 178
Flexural Strength			
--	222	MPa	ASTM D790
--	209	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	91	J/m	ASTM D256
23°C ²	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	840	J/m	ASTM D4812
23°C ³	51	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	11.4	J	ASTM D3763
--	2.07	J	ISO 6603-2
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 ⁴	221	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	207	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	202	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.1E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.0E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	HB		UL 94
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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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