

LNP™ THERMOCOMP™ WZ002 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP WZ002 is a compound based on PBT resin containing 10% Milled Glass.

Also known as: LNP* THERMOCOMP* Compound WF-1002 M

Product reorder name: WZ002

General Information			
Filler / Reinforcement	Milled Glass Fiber, 10% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.9	%	Internal Method
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	47.0	MPa	
Break	45.0	MPa	
Tensile Strain			ISO 527-2/5
Yield	2.3	%	
Break	2.4	%	
Flexural Modulus ¹	2900	MPa	ISO 178
Flexural Stress	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	20	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 64.0 mm Span	149	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	64.0	°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.	2.0 mm/min	
2.	80*10*4	
3.	80*10*4	
4.	80*10*4 mm	

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