

LNP™ THERMOCOMP™ WC003 compound

Polybutylene Terephthalate

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP WC003 is a compound based on Polybutylene Terephthalate resin containing Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound WC-1003

Product reorder name: WC003

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.20 to 0.40	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11400	MPa	ISO 527-2/1
Tensile Stress (Break)	136	MPa	ISO 527-2/5
Tensile Strain (Break)	1.9	%	ISO 527-2/5
Flexural Modulus ²	9600	MPa	ISO 178
Flexural Stress	193	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³ (23°C)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	25	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, Unannealed, 64.0 mm Span	224	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	206	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.6E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
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.	Tensile Bar
2.	2.0 mm/min
3.	80*10*4
4.	80*10*4
5.	80*10*4 mm

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