

LNP™ THERMOCOMP™ MC004 compound

Polypropylene

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP MC004 is a compound based on Polypropylene resin containing Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound MC-1004

Product reorder name: MC004

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.050 to 0.25	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8100	MPa	ISO 527-2/1
Tensile Stress (Break)	48.0	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	%	ISO 527-2/5
Flexural Modulus ²	7300	MPa	ISO 178
Flexural Stress ³			ISO 178
-- ⁴	32.0	MPa	
-- ⁵	64.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	15	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸ (1.8 MPa, Unannealed, 64.0 mm Span)	129	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	3.3E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.3E-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	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 to 204	°C	
Middle Temperature	216 to 227	°C	

Front Temperature	238 to 249	°C
Processing (Melt) Temp	227 to 249	°C
Mold Temperature	32.2 to 48.9	°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.	2.0 mm/min
4.	Break
5.	Yield
6.	80*10*4
7.	80*10*4
8.	80*10*4 mm

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