

LNP™ THERMOCOMP™ RC00A compound

Polyamide 66

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP RC00A is a compound based on PA6.6 resin containing Carbon Fiber. Added features include: Electrically Conductive

Also known as: LNP* THERMOCOMP* Compound RC-100-10

Product reorder name: RC00A

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.050 to 0.15	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	33400	MPa	ISO 527-2/1
Tensile Stress (Break)	238	MPa	ISO 527-2/5
Tensile Strain (Break)	1.0	%	ISO 527-2/5
Flexural Modulus ¹	24000	MPa	ISO 178
Flexural Stress	331	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	254	°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	6.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+2	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	254 to 266	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	254 to 288	°C	

Mold Temperature	37.8 to 65.6	°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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