

LNP™ THERMOCOMP™ RC003SXS

compound

Polyamide 66

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP RC003SXS is a compound based on PA 66 resin containing Carbon fiber. Added features include: Electrically Conductive, Heat Stabilized

Also known as: LNP* THERMOCOMP* Compound RC-1003 HS

Product reorder name: RC003SXS

General Information			
Filler / Reinforcement	Carbon Fiber		
Additive	Heat Stabilizer		
Features	Electrically Conductive		
	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.10 to 0.20	%	Internal Method
Water Absorption (Saturation, 23°C)	5.5	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	105		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ISO 527-2/1
Tensile Stress (Break)	170	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ²	10000	MPa	ISO 178
Flexural Stress	230	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ³ (23°C)	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ⁴			ISO 180/1A
-40°C	3.0	kJ/m ²	
-20°C	4.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, Unannealed, 100 mm Span	252	°C	ISO 75-2/Be

1.8 MPa, Unannealed, 100 mm Span	250	°C	ISO 75-2/Ae
Vicat Softening Temperature	255	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.8E+5	ohms	IEC 60093
Volume Resistivity	1.8E+5	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm, Testing by SABIC)	HB		UL 94
Oxygen Index	28	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 to 90.0	°C	
Rear Temperature	280 to 320	°C	
Middle Temperature	320 to 360	°C	
Front Temperature	320 to 360	°C	
Nozzle Temperature	280 to 320	°C	
Processing (Melt) Temp	320 to 360	°C	
Mold Temperature	80.0 to 100	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4 sp=62mm		
4.	80*10*4		
5.	120*10*4 mm		

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