

LNP™ THERMOCOMP™ RC004SXS

compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP RC004SXS is a compound based on Nylon 66 containing 20% Carbon Fiber. Added feature of this grade includes: Heat Stabilized, Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound RC-1004 HS

Product reorder name: RC004SXS

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Electrically Conductive		
	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.90 to 2.0	%	
Water Absorption			
24 hr, 50% RH	0.89	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	16700	MPa	ASTM D638
--	16700	MPa	ISO 527-2/1
Tensile Strength			
Break ²	222	MPa	ASTM D638
Break	242	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.3	%	ASTM D638
Break	2.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	13700	MPa	ASTM D790
-- ⁵	12900	MPa	ISO 178
Flexural Stress			
--	331	MPa	ISO 178

Break, 50.0 mm Span ⁶	348	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	68	J/m	ASTM D256
23°C ⁷	6.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	880	J/m	ASTM D4812
23°C ⁸	49	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.60	J	ASTM D3763
--	2.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	260	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	260	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	252	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	247	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 304	°C	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT