

LNP™ THERMOCOMP™ RC006XXH

compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP RC006XXH is a compound based on Nylon 66 resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive, Healthcare.

Also known as: LNP* THERMOCOMP* Compound RC-1006 HC

Product reorder name: RC006XXH

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Electrically Conductive		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.70	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	25200	MPa	ASTM D638
--	24800	MPa	ISO 527-2/1
Tensile Strength			
Break ²	269	MPa	ASTM D638
Break	267	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.1	%	ASTM D638
Break	2.1	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	20300	MPa	ASTM D790
-- ⁵	19000	MPa	ISO 178
Flexural Stress			
--	364	MPa	ISO 178
Break, 50.0 mm Span ⁶	382	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	100	J/m	ASTM D256
23°C ⁷	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ⁸	64	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.60	J	ASTM D3763
--	2.90	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	262	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	261	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	257	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	257	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.3E-5	cm/cm/°C	
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.	5.0 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		

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Recommended distributors for this material

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

