

LNP™ THERMOCOMP™ RC008H compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* RC008H is a compound based on Nylon 66 resin containing 40% Carbon Fiber. Added features of this material include: Electrically Conductive, Healthcare.

Also known as: LNP* THERMOCOMP* Compound RC-1008

Product reorder name: RC008H

General Information			
UL YellowCard	E121562-101282584		
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Electrically Conductive		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.33	g/cm ³	ASTM D792
--	1.34	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Water Absorption			
24 hr, 50% RH	0.54	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.78	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	32000	MPa	ASTM D638
Tensile Strength ² (Break)	288	MPa	ASTM D638
Tensile Elongation ³ (Break)	1.8	%	ASTM D638
Flexural Modulus ⁴ (100 mm Span)	26100	MPa	ASTM D790
Flexural Strength ⁵ (Break, 100 mm Span)	429	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C ⁶	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1200	J/m	ASTM D4812
23°C ⁷	71	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	15.8	J	ASTM D3763
--	4.66	J	ISO 6603-2

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ⁸	261	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	255	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	252	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.9E-6	cm/cm/°C	
Transverse : -30 to 30°C	7.2E-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.	2.6 mm/min		
5.	2.6 mm/min		
6.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		
9.	80*10*4 mm		

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