

LNP™ THERMOCOMP™ RC008 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* RC008 is a compound based on Nylon 66 resin containing 40% Carbon Fiber. Added features of this material include: Electrically Conductive.

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

Product reorder name: RC008

General Information			
UL YellowCard	E121562-101282584		
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	30700	MPa	ASTM D638
--	29500	MPa	ISO 527-2/1
Tensile Strength			
Break	267	MPa	ASTM D638
Break	294	MPa	ISO 527-2
Tensile Elongation			
Break	1.9	%	ASTM D638
Break	1.7	%	ISO 527-2
Flexural Modulus			
--	23200	MPa	ASTM D790
--	28400	MPa	ISO 178
Flexural Strength			
--	440	MPa	ASTM D790
--	458	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.41		
vs. Itself - Static	0.30		
Wear Factor - Washer	14.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	100	J/m	ASTM D256

23°C ²	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ³	75	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	9.60	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	254	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	> 240	°C	ISO 75-2/Af
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	HB		UL 94
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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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