

LNP™ THERMOCOMP™ RF008 compound

Polyamide 66

SABIC Innovative Plastics Asia Pacific

Message:

LNP THERMOCOMP RF-1008 is a compound based on Nylon 66 resin containing Glass Fiber.

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

Product reorder name: RF008

General Information			
UL YellowCard	E121562-101281621		
Filler / Reinforcement	Glass fiber reinforced material		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.50	g/cm ³	ASTM D792
--	1.48	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.20 - 0.40	%	ASTM D955
Transverse flow: 24 hours	1.0 - 3.0	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.66	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13900	MPa	ASTM D638
--	14100	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	230	MPa	ASTM D638
Yield	232	MPa	ISO 527-2/5
Fracture ³	210	MPa	ASTM D638
Fracture	232	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.8	%	ASTM D638
Yield	2.9	%	ISO 527-2/5
Fracture ⁵	2.9	%	ASTM D638
Fracture	2.9	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁶	12400	MPa	ASTM D790
-- ⁷	11200	MPa	ISO 178
Flexural Stress			
--	229	MPa	ISO 178

Yield, 50.0mm span ⁸	338	MPa	ASTM D790
Fracture, 50.0mm span ⁹	337	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	170	J/m	ASTM D256
23°C ¹⁰	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1300	J/m	ASTM D4812
23°C ¹¹	86	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	18.0	J	ASTM D3763
--	4.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	260	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ¹²	259	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	253	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹³	244	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 30°C	3.2E-5	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	6.2E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 - 0.25	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	282 - 293	°C	
Front Temperature	293 - 304	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	93.3 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	Type 1, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	1.3 mm/min		

10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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Recommended distributors for this material

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