

LNP™ THERMOCOMP™ RB004 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP RB004 is a compound based on Nylon 66 containing Glass Beads.

Also known as: LNP* THERMOCOMP* Compound RB-1004

Product reorder name: RB004

General Information			
Filler / Reinforcement	Glass Bead		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.29	g/cm ³	
--	1.28	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.62	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4100	MPa	ASTM D638
--	3970	MPa	ISO 527-2/1
Tensile Stress			
Yield	79.0	MPa	ISO 527-2/5
Break ²	80.0	MPa	ASTM D638
Break	75.0	MPa	ISO 527-2/5
Tensile Strain			
Yield	3.8	%	ISO 527-2/5
Break ³	3.7	%	ASTM D638
Break	3.9	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	3870	MPa	ASTM D790
-- ⁵	3710	MPa	ISO 178
Flexural Stress	119	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	28	J/m	ASTM D256
23°C ⁶	4.1	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	230	J/m	ASTM D4812
23°C ⁷	17	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	2.70	J	ASTM D3763
--	0.820	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	233	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁸	219	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	81.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	77.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	7.3E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.1E-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.	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.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		
9.	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.

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

