

LNP™ THERMOCOMP™ RF004 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* RF004 is a compound based on Nylon 66 resin containing 20% Glass Fiber.

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

Product reorder name: RF004

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.30	g/cm ³	ASTM D792
--	1.29	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	1.2	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.47	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.80	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7170	MPa	ASTM D638
--	7300	MPa	ISO 527-2/1
Tensile Strength			
Break	157	MPa	ASTM D638
Break	160	MPa	ISO 527-2
Tensile Elongation			
Break	3.6	%	ASTM D638
Break	3.7	%	ISO 527-2
Flexural Modulus			
--	5860	MPa	ASTM D790
--	7000	MPa	ISO 178
Flexural Strength			
--	231	MPa	ASTM D790
--	242	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.68		
vs. Itself - Static	0.52		
Wear Factor - Washer	80.0	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	8.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	830	J/m	ASTM D4812
23°C ³	56	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	11.4	J	ASTM D3763
--	2.49	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	260	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	247	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	221	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	3.8E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	3.9E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	7.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
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		

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

