

LNP™ THERMOCOMP™ RF002XXH

compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* RF002XXH is a compound based on Nylon 66 resin containing 10% Glass Fiber. Added feature of this material includes: Healthcare.
Also known as: LNP* THERMOCOMP* Compound RF-1002 HC
Product reorder name: RF002XXH

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.20	g/cm ³	
--	1.19	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.80 to 1.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.94	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.6	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4970	MPa	ASTM D638
--	5090	MPa	ISO 527-2/1
Tensile Strength			
Break ²	87.0	MPa	ASTM D638
Break	102	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.0	%	ASTM D638
Break	2.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	4620	MPa	ASTM D790
-- ⁵	4290	MPa	ISO 178
Flexural Stress			
--	153	MPa	ISO 178
Break, 50.0 mm Span ⁶	158	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	3.7	J/m	ASTM D256
23°C ⁷	38	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	350	J/m	ASTM D4812
23°C ⁸	22	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	4.80	J	ASTM D3763
--	1.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	256	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	251	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	239	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	229	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	5.8E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.1E-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.	5.0 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.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	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

