LNP™ THERMOCOMP™ RF002 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* RF002 is a compound based on Nylon 66 resin containing 10% Glass Fiber.
Also known as: LNP* THERMOCOMP* Compound RF-1002
Product reorder name: RF002

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.22	g/cm³	ASTM D792
--	1.21	g/cm³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.80	%	ASTM D955
Across Flow : 24 hr	1.2	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.76	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.80	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.7	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	5970	MPa	ASTM D638
--	5240	MPa	ISO 527-2/1
Tensile Strength			
Break	112	MPa	ASTM D638
Break	90.0	MPa	ISO 527-2
Tensile Elongation			
Break	2.6	%	ASTM D638
Break	2.0	%	ISO 527-2
Flexural Modulus			
--	5380	MPa	ASTM D790
--	4580	MPa	ISO 178
Flexural Strength			
--	189	MPa	ASTM D790
--	139	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	43	J/m	ASTM D256

23°C [2]	5.1	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	500	J/m	ASTM D4812
23°C [3]	36	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	5.97	J	ASTM D3763
--	1.00	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	265	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	250	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [4]	235	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	7.9E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	8.1E-5	cm/cm/°C	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		

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


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