

LNP™ THERMOCOMP™ RF007SXN

compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP RF007SXN is a Hydro-Stable, 35% Glass Fiber reinforced compound based on Nylon 66. Added features of this grade include: Heat Stabilized, NSF Listed.

Also known as: LNP* THERMOCOMP* Compound RF007SXN

Product reorder name: RF007SXN

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	Hydrolytically Stable		
Agency Ratings	NSF Unspecified Rating		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	3.78	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.45	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.51	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11900	MPa	ASTM D638
--	11700	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	195	MPa	ASTM D638
Break ³	175	MPa	ASTM D638
Break	193	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁴	2.5	%	ASTM D638
Break	2.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	10600	MPa	ASTM D790
-- ⁶	9840	MPa	ISO 178

Flexural Stress			
--	268	MPa	ISO 178
Yield, 50.0 mm Span ⁷	285	MPa	ASTM D790
Break, 50.0 mm Span ⁸	284	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	100	J/m	ASTM D256
23°C ⁹	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ¹⁰	61	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.56	J	ASTM D3763
--	3.04	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	261	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	261	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	255	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	252	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.8E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.3E-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.	Type I, 5.0 mm/min		
5.	1.3 mm/min		
6.	2.0 mm/min		
7.	1.3 mm/min		

8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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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

