

LNP™ THERMOCOMP™ RFB71S compound

Polyamide 66

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP RFB71S is a compound based on Nylon 66 resin containing Glass Fiber, Glass Bead. Added features of this material include: Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound RF-1008 HS MG

Product reorder name: RFB71S

General Information			
UL YellowCard	E45329-101282594		
Filler / Reinforcement	Glass Bead\Glass Fiber		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.70 to 0.90	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5800	MPa	ISO 527-2/1
Tensile Stress (Break)	99.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.3	%	ISO 527-2/5
Flexural Modulus ²	5000	MPa	ISO 178
Flexural Stress ³			ISO 178
-- ⁴	155	MPa	
-- ⁵	90.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	25	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, Unannealed, 64.0 mm Span	243	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	137	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	5.2E-5	cm/cm/°C	
Transverse : 23 to 60°C	7.3E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
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.	Tensile Bar
2.	2.0 mm/min
3.	2.0 mm/min
4.	Yield
5.	Break
6.	80*10*4
7.	80*10*4
8.	80*10*4 mm

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