LNP™ THERMOCOMP™ RB008 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* RB008 is a compound based on Nylon 66 resin containing Glass Bead.
Also known as: LNP* THERMOCOMP* Compound RB-1008
Product reorder name: RB008

General Information			
UL YellowCard	E207780-101345249		
Filler / Reinforcement	Glass beads		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.46	g/cm³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow: 24 hours	1.8 - 2.0	%	ASTM D955
Transverse flow: 24 hours	1.9 - 2.1	%	ASTM D955
Vertical flow direction: 24 hours	1.9 - 2.1	%	ISO 294-4
Flow direction: 24 hours	1.8 - 2.0	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	1.2	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.6	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	5100	MPa	ASTM D638
--	5440	MPa	ISO 527-2/1
Tensile Strength			
Fracture	55.3	MPa	ASTM D638
Fracture	58.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	3.3	%	ASTM D638
Fracture	2.7	%	ISO 527-2
Flexural Modulus			
--	3780	MPa	ASTM D790
--	4060	MPa	ISO 178
Flexural Strength			
--	103	MPa	ASTM D790
--	104	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	32	J/m	ASTM D256

23°C [2]	2.6	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	230	J/m	ASTM D4812
23°C [3]	21	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	4.77	J	ASTM D3763
--	4.85	J	ISO 6603-2

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	68.3	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [4]	102	°C	ISO 75-2/Af

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.15 - 0.25	%
Rear Temperature	266 - 277	°C
Middle Temperature	282 - 293	°C
Front Temperature	293 - 304	°C
Processing (Melt) Temp	282 - 304	°C
Mold Temperature	93.3 - 110	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 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

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