LNP* Thermocomp* RB008

Polyamide 66

SABIC Innovative Plastics

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Technical Data

Product Description

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

Material Status	• Commercial: Active
Literature [1]	• Technical Datasheet
UL Yellow Card [2]	• E121562-101281616 • E45195-235999
Search for UL Yellow Card	• SABIC Innovative Plastics • LNP* Thermocomp*
Availability	• North America
Filler / Reinforcement	• Glass Bead
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm³	ASTM D792 ISO 1183
Molding Shrinkage			ASTM D955 ISO 294-4
Flow: 24 hr	1.8 to 2.0	%	
Across Flow: 24 hr	1.9 to 2.1	%	
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			
-- [4]	5100	MPa	ASTM D638
--	5440	MPa	ISO 527-2/1
Tensile Strength			
Break	55.3	MPa	ASTM D638
Break	58.0	MPa	ISO 527-2
Tensile Elongation			
Break	3.3	%	ASTM D638
Break	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 [5]	2.6	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	230	J/m	ASTM D4812
23°C [5]	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

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	68.3	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [6]	102	°C	ISO 75-2/Af
CLTE			
Flow: -40 to 40°C	0.000049	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	0.000050	cm/cm/°C	ISO 11359-2
Transverse: -40 to 40°C	0.000056	cm/cm/°C	ASTM E831
Transverse: -40 to 40°C	0.000057	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

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

[3] Typical properties: these are not to be construed as specifications.

[4] 50 mm/min

[5] 80*10*4

[6] 80*10*4 mm

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Where to Buy

Supplier

SABIC Innovative Plastics
Pittsfield, MA USA
Telephone: 800-845-0600
Web: http://www.sabic-ip.com/

Distributor

Nexeo Solutions
Telephone: 800-531-7106
Web: http://www.nexeosolutions.com/
Availability: North America

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