

LNP Thermocomp* RB-1008

Polyamide 66

SABIC Innovative Plastics

General

Filler / Reinforcement	• Glass Bead
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792A 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	1.2	%	ASTM D570
24 hr, 23°C	1.6	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	5100	MPa	ASTM D638
--	5440	MPa	ISO 527-2
Tensile Strength			
Break	55.2	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			
--	96.5	MPa	ASTM D790
--	104	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
3.18 mm	32.0	J/m	ASTM D256
--	2.60	kJ/m ²	ISO 180
Unnotched Izod Impact			
3.18 mm	230	J/m	ASTM D256
--	20.9	kJ/m ²	ISO 180
Instrumented Dart Impact			
--	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	68.3	°C	ASTM D648
1.8 MPa, Unannealed	102	°C	ISO 75-2/A
CLTE			
Flow	0.000049	cm/cm/°C	ASTM E831
Flow	0.000050	cm/cm/°C	ISO 11359-2
Transverse	0.000056	cm/cm/°C	ASTM E831
Transverse	0.000057	cm/cm/°C	ISO 11359-2

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Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	282 to 302	°C
Mold Temperature	93.3 to 107	°C
Back Pressure	0.172 to 0.345	MPa

Notes

¹ Typical properties: these are not to be construed as specifications.