

LNP™ THERMOCOMP™ RB006 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP THERMOCOMP RB006 is a compound based on Nylon 66 resin containing 30% Glass Bead.

Also known as: LNP* THERMOCOMP* Compound RB-1006

Product reorder name: RB006

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.38	g/cm ³	ASTM D792, ISO 1183
--	1.36	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	1.0 to 3.0	%	ASTM D955
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.72	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.72	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6810	MPa	ASTM D638
--	7290	MPa	ISO 527-2/1
Tensile Strength			
Break	66.9	MPa	ASTM D638
Break ²	58.0	MPa	ASTM D638
Break	56.0	MPa	ISO 527-2/5
Tensile Elongation			
Break	3.0	%	ASTM D638
Break ³	6.5	%	ASTM D638
Break	7.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	4060	MPa	ASTM D790
--	4700	MPa	ASTM D790
-- ⁵	3850	MPa	ISO 178
Flexural Strength			
--	124	MPa	ASTM D790
Break, 50.0 mm Span ⁶	87.0	MPa	
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ⁷	3.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	390	J/m	ASTM D4812
23°C ⁸	25	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	100	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	101	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	92.7	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	95.0	°C	ISO 75-2/Af
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.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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