+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ THERMOCOMP™ RF006 compound

Polyamide 66

SABIC Innovative Plastics

Technical Data

Product Description

LNP* THERMOCOMP* RF006 is a compound based on Nylon 66 resin containing 30% Glass Fiber.

Also known as: LNP* Thermocomp* Compound RF-1006
Product reorder name: RF006

General

Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.41	g/cm³	
--	1.40	g/cm³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.60	%	
Across Flow : 24 hr	0.90 to 2.0	%	
Water Absorption			
24 hr, 50% RH	0.64	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.94	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- [4]	11400	MPa	ASTM D638
--	10600	MPa	ISO 527-2/1
Tensile Strength			
Break [5]	167	MPa	ASTM D638
Break	160	MPa	ISO 527-2/5
Tensile Elongation			
Break [5]	2.4	%	ASTM D638
Break	2.4	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [6]	9700	MPa	ASTM D790
-- [7]	9400	MPa	ISO 178
Flexural Strength			
--	233	MPa	ISO 178
Yield, 50.0 mm Span [6]	243	MPa	ASTM D790
Break, 50.0 mm Span [6]	242	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	67	J/m	ASTM D256
23°C [8]	6.5	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength [8] (23°C)	44	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.50	J	ASTM D3763
--	2.40	J	ISO 6603-2

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span [9]	255	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	246	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [9]	236	°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