

LNP™ THERMOCOMP™ IF004 compound

Polyamide 612

SABIC Innovative Plastics

Message:

LNP THERMOCOMP IF004 is a compound based on Nylon 6/12 resin containing 20% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound IF-1004

Product reorder name: IF004

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.21	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.28	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6830	MPa	ASTM D638
--	6790	MPa	ISO 527-2/1
Tensile Strength			
Break ²	118	MPa	ASTM D638
Break	119	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.7	%	ASTM D638
Break	2.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	6080	MPa	ASTM D790
-- ⁵	5730	MPa	ISO 178
Flexural Stress			
--	173	MPa	ISO 178
Break, 50.0 mm Span ⁶	184	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	63	J/m	ASTM D256
23°C ⁷	6.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	450	J/m	ASTM D4812

23°C ⁸	28	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.30	J	ASTM D3763
--	1.84	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	213	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	209	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	196	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	188	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.0E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.0E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 to 0.20	%	
Rear Temperature	254 to 266	°C	
Middle Temperature	260 to 271	°C	
Front Temperature	271 to 282	°C	
Processing (Melt) Temp	271 to 277	°C	
Mold Temperature	65.6 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 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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