

LNP™ THERMOCOMP™ IF00C compound

Polyamide 612

SABIC Innovative Plastics

Message:

LNP THERMOCOMP IF00C is a compound based on Nylon 6/12 resin containing 60% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound IF-100-12

Product reorder name: IF00C

General Information			
Filler / Reinforcement	Glass Fiber,60% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.68	g/cm ³	
--	1.67	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.13	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	21400	MPa	ASTM D638
--	20100	MPa	ISO 527-2/1
Tensile Strength			
Break ²	207	MPa	ASTM D638
Break	202	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.0	%	ASTM D638
Break	1.9	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	18500	MPa	ASTM D790
-- ⁵	18200	MPa	ISO 178
Flexural Stress			
--	306	MPa	ISO 178
Break, 50.0 mm Span ⁶	311	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	140	J/m	ASTM D256
23°C ⁷	14	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ⁸	640	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	10.0	J	ASTM D3763
--	3.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	215	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	214	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	205	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	198	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.3E-5	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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