

LNP™ THERMOCOMP™ SF006 compound

Polyamide 12

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* SF006 is a compound based on Nylon 12 resin containing 30% Glass Fiber.

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

Product reorder name: SF006

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.70 to 0.80	%	ASTM D955
Across Flow : 24 hr	0.74 to 0.81	%	ISO 294-4
Flow : 24 hr	0.21 to 0.30	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.14	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6550	MPa	ASTM D638
--	6590	MPa	ISO 527-2/1
Tensile Strength			
Break	107	MPa	ASTM D638
Break	108	MPa	ISO 527-2
Tensile Elongation			
Break	4.7	%	ASTM D638
Break	4.6	%	ISO 527-2
Flexural Modulus			
--	5860	MPa	ASTM D790
--	6240	MPa	ISO 178
Flexural Strength			
--	171	MPa	ASTM D790
--	169	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	150	J/m	ASTM D256
23°C ²	15	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	950	J/m	ASTM D4812
23°C ³	58	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	13.0	J	ASTM D3763
--	3.61	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	164	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	162	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	4.4E-5	cm/cm/°C	
Transverse : -40 to 40°C	1.1E-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	216 to 227	°C	
Middle Temperature	221 to 232	°C	
Front Temperature	227 to 238	°C	
Processing (Melt) Temp	227 to 238	°C	
Mold Temperature	71.1 to 82.2	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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