

LNP™ THERMOCOMP™ IF006 compound

Polyamide 612

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* IF006 is a compound based on Nylon 6/12 resin containing 30% Glass Fiber.

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

Product reorder name: IF006

General Information			
UL YellowCard	E121562-101282574		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.20	%	ASTM D955
Across Flow : 24 hr	0.70 to 0.80	%	ASTM D955
Across Flow : 24 hr	0.66 to 0.71	%	ISO 294-4
Flow : 24 hr	0.11 to 0.16	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.18	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9580	MPa	ASTM D638
--	10300	MPa	ISO 527-2/1
Tensile Strength			
Break	182	MPa	ASTM D638
Break	178	MPa	ISO 527-2
Tensile Elongation			
Break	3.7	%	ASTM D638
Break	3.4	%	ISO 527-2
Flexural Modulus			
--	9310	MPa	ASTM D790
--	8830	MPa	ISO 178
Flexural Strength			
--	291	MPa	ASTM D790
--	250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	140	J/m	ASTM D256
23°C ²	14	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	1200	J/m	ASTM D4812
23°C ³	78	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	14.0	J	ASTM D3763
--	3.04	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	214	°C	
1.8 MPa, Unannealed, 3.20 mm	198	°C	
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	4.1E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.3E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	HB		UL 94
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		

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