

LNP™ THERMOCOMP™ IF003 compound

Polyamide 612

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* IF003 is a compound based on Nylon 6/12 resin containing 15% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound IF-1003

Product reorder name: IF003

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.40 to 0.60	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	1.0 to 1.2	%	ASTM D955
Across Flow : 24 hr	1.0	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.22	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.26	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	5540	MPa	ASTM D638
--	5430	MPa	ISO 527-2/1
Tensile Strength			
Break	101	MPa	ASTM D638
Break	99.0	MPa	ISO 527-2
Tensile Elongation			
Break	2.6	%	ASTM D638
Break	2.1	%	ISO 527-2
Flexural Modulus			
--	5210	MPa	ASTM D790
--	4590	MPa	ISO 178
Flexural Strength			
--	164	MPa	ASTM D790
--	157	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ²	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	240	J/m	ASTM D4812
23°C ³	22	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.20	J	ASTM D3763
--	1.83	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	192	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	181	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	8.0E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	8.1E-5	cm/cm/°C	ISO 11359-2
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		
4.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT