LNP™ THERMOCOMP™ PF008 compound

Polyamide 6

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* PF008 is a compound based on Nylon 6 resin containing Glass Fiber.
Also known as: LNP* THERMOCOMP* Compound PF-1008
Product reorder name: PF008

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.47	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.20 - 0.40	%	ASTM D955
Transverse flow: 24 hours	0.60 - 0.80	%	ASTM D955
Vertical flow direction: 24 hours	0.60 - 0.80	%	ISO 294-4
Flow direction: 24 hours	0.20 - 0.30	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.98	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.3	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	12700	MPa	ASTM D638
--	13000	MPa	ISO 527-2/1
Tensile Strength			
Fracture	184	MPa	ASTM D638
Fracture	186	MPa	ISO 527-2
Tensile Elongation (Break)	3.3	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	9260	MPa	ASTM D790
--	9530	MPa	ISO 178
Flexural Strength			
--	279	MPa	ASTM D790
--	278	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C [2]	18	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength [3] (23°C)	92	kJ/m²	ISO 180/1U
Instrumented Dart Impact			

23°C, Energy at Peak Load	25.1	J	ASTM D3763
--	21.6	J	ISO 6603-2

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	196	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [4]	208	°C	ISO 75-2/Af

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.15 - 0.25	%
Rear Temperature	249 - 260	°C
Middle Temperature	266 - 277	°C
Front Temperature	277 - 288	°C
Processing (Melt) Temp	266 - 277	°C
Mold Temperature	82.2 - 93.3	°C
Back Pressure	0.344 - 0.689	MPa
Screw Speed	30 - 60	rpm

NOTE	
1.	50 mm/min
2.	80*10*4
3.	80*10*4
4.	80*10*4 mm

Recommended distributors for this material

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