

LNP™ THERMOCOMP™ PF008S compound

Polyamide 6
SABIC Innovative Plastics

Message:

LNP THERMOCOMP PF008S is a compound based on Polyamide 6 resin containing Glass Fiber. Added features include: Heat Stabilized.
Also known as: LNP* THERMOCOMP* Compound PF008S
Product reorder name: PF008S

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	heat stabilizer		
Features	Thermal Stability		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 - 0.30	%	Internal method
Water Absorption (23°C, 24 hr)	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11500	MPa	ISO 527-2/1
Tensile Stress (Yield)	182	MPa	ISO 527-2/5
Tensile Strain (Break)	3.9	%	ISO 527-2/5
Flexural Modulus ¹	10900	MPa	ISO 178
Flexural Stress	273	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	88	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 64.0mm span	217	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	204	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	9.3E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.8E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 - 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.	2.0 mm/min	
2.	80*10*4	
3.	80*10*4	
4.	80*10*4 mm	

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