

LNP™ THERMOCOMP™ PF008S compound

Polyamide 6

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* PF008S is a compound based on Nylon 6 resin containing Glass Fiber. Added features of this material include: Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound PF-1008 HS

Product reorder name: PF008S

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	heat stabilizer		
Features	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	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 - 0.40	%	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/m ²	ISO 180/1A

Unnotched Izod Impact Strength ³ (23°C)	92	kJ/m ²	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		

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