

LNP™ THERMOCOMP™ HF008 compound

Polyamide 11

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* HF008 is a compound based on Nylon 11 resin containing 40% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound HF-1008

Product Reorder name: HF008

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.80 to 1.0	%	
Water Absorption			
24 hr, 50% RH	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.19	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9280	MPa	ASTM D638
--	7600	MPa	ISO 527-2/1
Tensile Strength (Break)	123	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Break	4.9	%	ASTM D638
Break	3.9	%	ISO 527-2
Flexural Modulus			
--	8480	MPa	ASTM D790
--	7970	MPa	ISO 178
Flexural Strength			
--	221	MPa	ASTM D790
--	192	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	240	J/m	ASTM D256
23°C ²	21	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1200	J/m	ASTM D4812
23°C ³	76	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			

23°C, Energy at Peak Load	18.7	J	ASTM D3763
--	3.51	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	178	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	175	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	2.9E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	3.0E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	8.8E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	8.9E-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	%	
Rear Temperature	199 to 210	°C	
Middle Temperature	232 to 243	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	227 to 260	°C	
Mold Temperature	43.3 to 54.4	°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		

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