

LNP™ THERMOCOMP™ HF008 compound

Polyamide 11
SABIC Innovative Plastics

Message:

LNP THERMOCOMP HF008 is a compound based on Nylon 11 resin containing Glass Fiber.
Also known as: LNP* THERMOCOMP* Compound HF-1008
Product reorder name: HF008

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.80 - 1.0	%	ASTM D955
Vertical flow direction: 24 hours	0.80 - 1.0	%	ISO 294-4
Flow direction: 24 hours	0.10 - 0.30	%	ISO 294-4
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			
Fracture	4.9	%	ASTM D638
Fracture	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, 3.20mm	178	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	175	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
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
Lateral: -40 to 40°C	8.8E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	8.9E-5	cm/cm/°C	ISO 11359-2
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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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

