

LNP™ THERMOCOMP™ SF008 compound

Polyamide 12

SABIC Innovative Plastics

Message:

LNP THERMOCOMP SF008 is a compound based on Nylon 12 resin containing 40% Glass Fiber.

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

Product reorder name: SF008

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			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	0.73	%	ISO 294-4
Flow : 24 hr	0.18	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8270	MPa	ASTM D638
--	8760	MPa	ISO 527-2/1
Tensile Strength			
Break	136	MPa	ASTM D638
Break	152	MPa	ISO 527-2
Tensile Elongation			
Break	11	%	ASTM D638
Break	9.0	%	ISO 527-2
Flexural Modulus			
--	7580	MPa	ASTM D790
--	9000	MPa	ISO 178
Flexural Strength			
--	96.5	MPa	ASTM D790
--	213	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	260	J/m	ASTM D256
23°C ²	18	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1400	J/m	ASTM D4812

23°C ³	76	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	177	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	170	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	166	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 to 0.20	%	
Rear Temperature	216 to 227	°C	
Middle Temperature	221 to 232	°C	
Front Temperature	227 to 238	°C	
Processing (Melt) Temp	227 to 238	°C	
Mold Temperature	71.1 to 82.2	°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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