

LNP™ THERMOCOMP™ MF008GS compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP* THERMOCOMP* MF008GS is a compound based on Polypropylene resin containing 40% Mixed Glass. Added features of this grade include: Chemically Coupled, Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound MFX-1008 HS MG

Product reorder name: MF008GS

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.87	%	
Across Flow : 24 hr	1.4	%	
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	5780	MPa	ASTM D638
--	5300	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	52.0	MPa	ASTM D638
Yield	51.0	MPa	ISO 527-2/5
Break ³	51.0	MPa	ASTM D638
Break	49.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.3	%	ASTM D638
Yield	2.2	%	ISO 527-2/5
Break ⁵	3.1	%	ASTM D638
Break	3.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	4810	MPa	ASTM D790
-- ⁷	4680	MPa	ISO 178

Flexural Stress			
--	84.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	87.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	58	J/m	ASTM D256
23°C ⁹	5.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	400	J/m	ASTM D4812
23°C ¹⁰	23	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	13.6	J	ASTM D3763
--	3.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	157	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	153	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	140	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	130	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.6E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.5E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 to 204	°C	
Middle Temperature	216 to 227	°C	
Front Temperature	238 to 249	°C	
Processing (Melt) Temp	227 to 249	°C	
Mold Temperature	32.2 to 48.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4		

10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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