

LNP™ THERMOCOMP™ MB008S compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP MB008S is a compound based on Polypropylene resin containing 40% Glass Bead. Added features of this material include: Heat Stabilized.

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

Product reorder name: MB008S

General Information			
Filler / Reinforcement	Glass Bead,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density			
--	1.21	g/cm ³	ISO 1183
--	1.22	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	1.2 to 1.4	%	ASTM D955
Across Flow : 24 hr	1.3 to 1.5	%	ASTM D955
Across Flow : 24 hr	1.4	%	ISO 294-4
Flow : 24 hr	1.3	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2070	MPa	ASTM D638
--	1660	MPa	ISO 527-2/1
Tensile Strength			
Yield	19.3	MPa	ASTM D638
Yield	19.0	MPa	ISO 527-2
Break	15.9	MPa	ASTM D638
Break	15.0	MPa	ISO 527-2
Tensile Elongation			
Yield	6.0	%	ASTM D638
Yield	6.2	%	ISO 527-2
Break	160	%	ASTM D638
Break	44	%	ISO 527-2
Flexural Modulus			
--	2070	MPa	ASTM D790
--	2200	MPa	ISO 178
Flexural Strength			

--	27.6	MPa	ASTM D790
--	36.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	27	J/m	ASTM D256
23°C ²	2.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	260	J/m	ASTM D4812
23°C ³	16	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.00	J	ASTM D3763
--	1.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	103	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	103	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	60.6	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	61.0	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	7.2E-6	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	7.7E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	7.2E-6	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	6.6E-5	cm/cm/°C	ISO 11359-2
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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