



LNP™ THERMOCOMP™ Compound MB008S

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound MB-1008 HS
Product reorder name: MB008S

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	190	kgf/cm ²	ASTM D 638
Tensile Stress, break	160	kgf/cm ²	ASTM D 638
Tensile Strain, yield	6	%	ASTM D 638
Tensile Strain, break	160	%	ASTM D 638
Tensile Modulus, 50 mm/min	21000	kgf/cm ²	ASTM D 638
Flexural Stress	280	kgf/cm ²	ASTM D 790
Flexural Modulus	21000	kgf/cm ²	ASTM D 790
Tensile Stress, yield	19	MPa	ISO 527
Tensile Stress, break	15	MPa	ISO 527
Tensile Strain, yield	6.1	%	ISO 527
Tensile Strain, break	43.8	%	ISO 527
Tensile Modulus, 1 mm/min	1660	MPa	ISO 527
Flexural Stress	36	MPa	ISO 178
Flexural Modulus	2200	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	26	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	61	cm-kgf	ASTM D 3763
Multiaxial Impact	18	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	15	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	102	°C	ASTM D 648





LNP™ THERMOCOMP™ Compound MB008S

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	60	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.2E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.2E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.67E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.64E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	103	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	61	°C	ISO 75/Af
PHYSICAL			
Density	1.22	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	1.2 - 1.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.3 - 1.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.4	%	ISO 294
Density	1.21	g/cm ³	ISO 1183





LNP™ THERMOCOMP™ Compound MB008S

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	225 - 250	°C
Front - Zone 3 Temperature	240 - 250	°C
Middle - Zone 2 Temperature	215 - 225	°C
Rear - Zone 1 Temperature	195 - 205	°C
Mold Temperature	30 - 50	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

