



LNP™ THERMOCOMP™ Compound MB006S

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound MB-1006 HS

Product reorder name: MB006S

LNP THERMOCOMP™ MB006S is a compound based on Polypropylene resin containing 30% Glass Bead. Added features of this material include: Heat Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	240	kgf/cm ²	ASTM D 638
Tensile Stress, break	190	kgf/cm ²	ASTM D 638
Tensile Strain, yield	6.3	%	ASTM D 638
Tensile Strain, break	87.5	%	ASTM D 638
Flexural Stress	440	kgf/cm ²	ASTM D 790
Flexural Modulus	21700	kgf/cm ²	ASTM D 790
Tensile Stress, yield	24	MPa	ISO 527
Tensile Stress, break	19	MPa	ISO 527
Tensile Strain, yield	5.5	%	ISO 527
Tensile Strain, break	83.4	%	ISO 527
Tensile Modulus, 1 mm/min	2400	MPa	ISO 527
Flexural Stress	46	MPa	ISO 178
Flexural Modulus	2900	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	23	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	37	cm-kgf	ASTM D 3763
Multiaxial Impact	16	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	20	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	112	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	70	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, flow	6.89E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.88E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	75	°C	ISO 75/Af
PHYSICAL			
Density	1.12	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.16	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.15	%	ISO 294
Density	1.11	g/cm ³	ISO 1183



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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