

Americas: COMMERCIAL

LNP* Thermocomp* Compound MH0500C

Also known as: MH0500C

Product Reorder Name: MH0500C

LNP* Thermocomp* MH0500C is a compound based on Polypropylene resin containing High Specific Gravity Filler. Added features of this material include: High Specific Gravity.

Property

TYPICAL PROPERTIES (1)			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield	18	MPa	ASTM D 638
Tensile Stress, break	16	MPa	ASTM D 638
Tensile Strain, yield	3.2	%	ASTM D 638
Tensile Strain, break	19.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	4130	MPa	ASTM D 638
Flexural Modulus	2060	MPa	ASTM D 790
Tensile Stress, yield	19	MPa	ISO 527
Tensile Stress, break	19	MPa	ISO 527
Tensile Strain, yield	3.3	%	ISO 527
Tensile Strain, break	13.6	%	ISO 527
Tensile Modulus, 1 mm/min	2920	MPa	ISO 527
Flexural Stress	31	MPa	ISO 178
Flexural Modulus	2900	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	170	J/m	ASTM D 4812
Izod Impact, notched, 23°C	48	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	8	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	12	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	126	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	80	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.12E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.3E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.1E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.4E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	122	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	82	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	5.04	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	1.5 - 1.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.4 - 1.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.6	%	ISO 294
	1.0		
Mold Shrinkage, xflow, 24 hrs	1.5	%	ISO 294

Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	210 - 225	°C
Front - Zone 3 Temperature	215 - 225	°C
Middle - Zone 2 Temperature	205 - 215	°C
Rear - Zone 1 Temperature	195 - 205	°C
Mold Temperature	25 - 50	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:09/24/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

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- (2) Only typical data for selection purposes. Not to be used for part or tool design.
- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- (4) Internal measurements according to UL standards.

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