LNP™ THERMOCOMP™ COMPOUND MB008S

MB-1008 HS
REGION ASIA

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20181220

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	19	MPa	ASTM D 638
Tensile Stress, break	15	MPa	ASTM D 638
Tensile Strain, yield	6	%	ASTM D 638
Tensile Strain, break	160	%	ASTM D 638
Tensile Modulus, 50 mm/min	2060	MPa	ASTM D 638
Flexural Stress	27	MPa	ASTM D 790
Flexural Modulus	2060	MPa	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	261	J/m	ASTM D 4812
Izod Impact, notched, 23°C	26	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	6	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	15	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	102	°C	ASTM D 648
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/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	1.2 – 1.4	%	ASTM D 955

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, xflow, 24 hrs	1.3 – 1.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.4	%	ISO 294
Density	1.21	g/cm³	ISO 1183
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	

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