LNP™ THERMOCOMP™ Compound RB008

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound RB-1008
Product reorder name: RB008

LNP THERMOCOMP™ RB008 is a compound based on Nylon 66 resin containing 40% Glass Bead.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	560	kgf/cm²	ASTM D 638
Tensile Strain, break	3.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	52000	kgf/cm²	ASTM D 638
Flexural Stress	1040	kgf/cm²	ASTM D 790
Flexural Modulus	38500	kgf/cm²	ASTM D 790
Tensile Stress, break	58	MPa	ISO 527
Tensile Strain, break	2.7	%	ISO 527
Tensile Modulus, 1 mm/min	5430	MPa	ISO 527
Flexural Stress	103	MPa	ISO 178
Flexural Modulus	4060	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	23	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	48	cm-kgf	ASTM D 3763
Multiaxial Impact	49	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	20	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	68	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.86E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.58E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.96E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.68E-05	1/°C	ISO 11359-2

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	102	°C	ISO 75/Af
PHYSICAL			
Density	1.46	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	1.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.8 - 2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.9 - 2.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.8 - 2	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.9 - 2.1	%	ISO 294
Density	1.45	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	1.55	%	ISO 62

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	280 - 305	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm