



LNP™ THERMOCOMP™ Compound KZ001L

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound KF-1001 LE M

Product reorder name: KZ001L

LNP THERMOCOMP KZ001L is a compound based on Acetal Copolymer resin containing 5% Milled Glass. Added features of this material include: Low Extractible.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	590	kgf/cm ²	ASTM D 638
Tensile Stress, break	550	kgf/cm ²	ASTM D 638
Tensile Strain, yield	9.1	%	ASTM D 638
Tensile Strain, break	26.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	28100	kgf/cm ²	ASTM D 638
Flexural Modulus	21000	kgf/cm ²	ASTM D 790
Tensile Stress, yield	59	MPa	ISO 527
Tensile Stress, break	55	MPa	ISO 527
Tensile Strain, yield	9.8	%	ISO 527
Tensile Strain, break	42.7	%	ISO 527
Tensile Modulus, 1 mm/min	2840	MPa	ISO 527
Flexural Stress	72	MPa	ISO 178
Flexural Modulus	2000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	133	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	75	cm-kgf	ASTM D 3763
Multiaxial Impact	16	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	84	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	156	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	101	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, flow	1.13E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.13E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.13E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.13E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	148	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	93	°C	ISO 75/Af
PHYSICAL			
Density	1.42	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2 - 4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2 - 4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	2.9	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	2.6	%	ISO 294
Density	1.42	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	200 - 215	°C
Front - Zone 3 Temperature	210 - 220	°C
Middle - Zone 2 Temperature	195 - 205	°C
Rear - Zone 1 Temperature	175 - 190	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm