

LNP* Thermocomp* Compound KZ004

Asia Pacific: COMMERCIAL

Also known as: LNP* Thermocomp* Compound KF-1004 M

Product reorder name: KZ004

LNP* THERMOCOMP* KZ004 is a compound based on Acetal Copolymer resin containing Glass Fiber, Milled Glass.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yield	430	kgf/cm ²	ASTM D 638
Tensile Stress, break	420	kgf/cm ²	ASTM D 638
Tensile Strain, yield	8.1	%	ASTM D 638
Tensile Strain, break	22.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	40400	kgf/cm ²	ASTM D 638
Flexural Stress	770	kgf/cm ²	ASTM D 790
Flexural Modulus	35800	kgf/cm ²	ASTM D 790
Tensile Stress, yield	44	MPa	ISO 527
Tensile Stress, break	44	MPa	ISO 527
Tensile Strain, yield	7.1	%	ISO 527
Tensile Strain, break	9.7	%	ISO 527
Tensile Modulus, 1 mm/min	3430	MPa	ISO 527
Flexural Stress	70	MPa	ISO 178
Flexural Modulus	3310	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	54	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	27	cm-kgf	ASTM D 3763
Multiaxial Impact	44	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	37	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	91	°C	ASTM D 648

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THERMAL			
CTE, -40°C to 40°C, flow	7.38E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.92E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.51E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.01E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	106	°C	ISO 75/Af
PHYSICAL			
Density	1.53	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2.7 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.8 - 2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	2.7 - 3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.8 - 2	%	ISO 294
Density	1.53	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.34	%	ISO 62