



Americas: COMMERCIAL

LNP* Thermocomp* Compound KZ002

Also known as: THERMOCOMP KF-1002 M

Product Reorder Name: KZ002

LNP* Thermocomp* KZ002 is a compound based on Acetal containing Milled Glass.

Property

TYPICAL PROPERTIES (1)				
MECHANICAL	Value	Unit	Standard	
Tensile Stress, yld, Type I, 5 mm/min	55	MPa	ASTM D 638	
Tensile Stress, brk, Type I, 5 mm/min	53	MPa	a ASTM D 638	
Tensile Strain, yld, Type I, 5 mm/min	9.6	%	ASTM D 638	
Tensile Strain, brk, Type I, 5 mm/min	18.6	%	ASTM D 638	
Tensile Modulus, 50 mm/min	3630	MPa	ASTM D 638	
Flexural Modulus, 1.3 mm/min, 50 mm span	2770	MPa	ASTM D 790	
Tensile Stress, yield, 5 mm/min	55	MPa	ISO 527	
Tensile Stress, break, 5 mm/min	54	MPa	ISO 527	
Tensile Strain, yield, 5 mm/min	10.1	%	ISO 527	
Tensile Strain, break, 5 mm/min	21.3	%	ISO 527	
Tensile Modulus, 1 mm/min	3410	MPa	ISO 527	
Flexural Stress	74	MPa	ISO 178	
Flexural Modulus, 2 mm/min	2950	MPa	ISO 178	
IMPACT	Value	Unit	Standard	
Izod Impact, unnotched, 23°C	816	J/m	ASTM D 4812	
Izod Impact, notched, 23°C	42	J/m	ASTM D 256	
Multiaxial Impact	1	J	ISO 6603	
Instrumented Impact Total Energy, 23°C	5	J	ASTM D 3763	
Izod Impact, unnotched 80*10*4 +23°C	49	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	153	°C	ASTM D 648	
HDT, 1.82 MPa, 3.2mm, unannealed	101	°C	ASTM D 648	
HDT, 1.82 MPa, 3.2mm, annealed	103	°C	ASTM D 648	
CTE, -30°C to 30°C, flow	1.1E+02	1/°C	ASTM D 696	
CTE, -30°C to 30°C, xflow	1.06E+02	1/°C	ASTM D 696	
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	153	°C	ISO 75/Af	
PHYSICAL	Value	Unit	Standard	
Density	1.49	g/cm³	ASTM D 792	
Moisture Absorption, 50% RH, 24 hrs	0.18	%	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	
Density	1.49	g/cm³	ISO 1183	
Moisture Absorption (23°C / 50% RH)	0.26	%	ISO 62	

Source GMD, last updated:2009/06/19

Parameter		
Injection Molding	Value	Unit
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

Source GMD, last updated:2009/06/19

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.
- (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.
- (5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

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