

LNP* Thermocomp* Compound 9H1100C

Americas: COMMERCIAL

Also known as: LNP* Thermocomp* Compound 9H1100C

Product reorder name: 9H1100C

LNP* Thermocomp* 9H1100C is a High Specific Gravity compound containing proprietary fillers.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	120	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	120	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	0.8	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	0.9	%	ASTM D 638
Tensile Modulus, 5 mm/min	56000	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	250	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	66900	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	13	MPa	ISO 527
Tensile Stress, break, 5 mm/min	13	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	0.7	%	ISO 527
Tensile Strain, break, 5 mm/min	0.8	%	ISO 527
Tensile Modulus, 1 mm/min	2960	MPa	ISO 527
Flexural Stress	25	MPa	ISO 178
Flexural Modulus, 2 mm/min	5090	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	18	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Multiaxial Impact	21	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	67	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	13	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	13	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	143	°C	ASTM D 648

(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±176°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.

Source GMD, last updated:

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	95	°C	ASTM D 648
CTE, -30°C to 30°C, flow	4.8E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.3E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	134	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	97	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	11.29	-	ASTM D 792
Density	11.26	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4 - 0.7	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.04	%	ISO 62

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