



LNP* Thermocomp* Compound TH0815A Americas: COMMERCIAL

Also known as: LNP* Thermocomp* Compound HSG-T-0815A Product reorder name: TH0815A

LNP* THERMOCOMP* TH0815A is a compound based on Polyurethane resin containing High Specific Gravity Filler. Added features of this material include: High Specific Gravity.

YPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	180	kgf/cm ²	ASTM D 638
Tensile Stress, break	160	kgf/cm ²	ASTM D 638
Tensile Strain, yield	13.2	%	ASTM D 638
Tensile Strain, break	25.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	13600	kgf/cm ²	ASTM D 638
Flexural Stress	210	kgf/cm ²	ASTM D 790
Flexural Modulus	15500	kgf/cm ²	ASTM D 790
Tensile Stress, yield	19	MPa	ISO 527
Tensile Stress, break	17	MPa	ISO 527
Tensile Strain, yield	13.7	%	ISO 527
Tensile Strain, break	26.5	%	ISO 527
Tensile Modulus, 1 mm/min	1120	MPa	ISO 527
Flexural Stress	21	MPa	ISO 178
Flexural Modulus	1390	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	107	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	14	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	169	cm-kgf	ASTM D 3763
Multiaxial Impact	128	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	73	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	17	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	42	°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°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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YPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, flow	8.64E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.2E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	8.77E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.25E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	44	°C	ISO 75/Af
PHYSICAL			
Density	8.15	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.48	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.49	%	ISO 294
Density	8.15	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.06	%	ISO 62

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PROCESSING PARAMETERS	TYPICAL VALUE Unit					
Injection Molding						
Drying Temperature	80	O°				
Drying Time	4	hrs				
Maximum Moisture Content	0.03	%				
Melt Temperature	200 - 210	O°				
Front - Zone 3 Temperature	195 - 205	O°				
Middle - Zone 2 Temperature	190 - 200	O°				
Rear - Zone 1 Temperature	180 - 195	O°				
Mold Temperature	15 - 45	O°				
Back Pressure	0.2 - 0.3	MPa				
Screw Speed	30 - 60	rpm				

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