



# LNP\* Thermocomp\* Compound RF006XXH

Americas: COMMERCIAL

Also known as: LNP\* Thermocomp\* Compound RF-1006 HC

Product reorder name: RF006XXH

LNP\* Thermocomp\* RF006XXH is a compound based on Nylon 66 resin containing Glass Fiber. Characteristic of this grade is Healthcare.

YPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1700	kgf/cm²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	116400	kgf/cm²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	2470	kgf/cm²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2460	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	98900	kgf/cm²	ASTM D 790
Tensile Stress, break, 5 mm/min	160	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.4	%	ISO 527
Tensile Modulus, 1 mm/min	10570	MPa	ISO 527
Flexural Stress	233	MPa	ISO 178
Flexural Modulus, 2 mm/min	9400	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Multiaxial Impact	24	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	66	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	44	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	246	°C	ASTM D 648
CTE, -30°C to 30°C, flow	2.71E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	9.81E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	255	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	236	°C	ISO 75/Af

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(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 m 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.

- (3) This fathing is not interiored to consider the 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 mo 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 <sup>1</sup>	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Specific Gravity	1.41	-	ASTM D 792
Density	1.4	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.64	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.9 - 2	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.94	%	ISO 62

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	280 - 305	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

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