



LNP™ THERMOCOMP™ Compound NF002

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound PCA-F-1002

Product reorder name: NF002

LNP THERMOCOMP™ NF002 is a compound based on PC+ABS resin containing 10% Glass Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	820	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	790	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.9	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	49000	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1080	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	42800	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	79	MPa	ISO 527
Tensile Stress, break, 5 mm/min	78	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.9	%	ISO 527
Tensile Strain, break, 5 mm/min	3.1	%	ISO 527
Tensile Modulus, 1 mm/min	4410	MPa	ISO 527
Flexural Modulus, 2 mm/min	4160	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	50	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	12	cm-kgf/cm	ASTM D 256
Multiaxial Impact	71	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	195	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	33	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	138	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	130	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -30°C to 30°C, flow	6.02E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.66E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	137	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	128	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.23	-	ASTM D 792
Density	1.22	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.13	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5 - 0.8	%	ASTM D 955
Density	1.23	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.21	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	250 - 270	°C
Front - Zone 3 Temperature	260 - 270	°C
Middle - Zone 2 Temperature	250 - 260	°C
Rear - Zone 1 Temperature	230 - 245	°C
Mold Temperature	40 - 80	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm