



LNP™ THERMOCOMP™ Compound UF006H

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound UF-1006

Product reorder name: UF006H

LNP THERMOCOMP UF006H is a compound based on Polyphthalamide resin containing 30% Glass Fiber. Added feature of this grade is: Healthcare.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	2290	kgf/cm ²	ASTM D 638
Tensile Stress, break	2290	kgf/cm ²	ASTM D 638
Tensile Strain, yield	2.2	%	ASTM D 638
Tensile Strain, break	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	133500	kgf/cm ²	ASTM D 638
Flexural Stress	2950	kgf/cm ²	ASTM D 790
Flexural Modulus	112400	kgf/cm ²	ASTM D 790
Tensile Stress, yield	208	MPa	ISO 527
Tensile Stress, break	208	MPa	ISO 527
Tensile Strain, yield	2	%	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	12440	MPa	ISO 527
Flexural Stress	294	MPa	ISO 178
Flexural Modulus	11000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	69	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	10	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	74	cm-kgf	ASTM D 3763
Multiaxial Impact	37	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	47	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	305	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	287	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.04E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.88E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	5.1E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.8E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	293	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	282	°C	ISO 75/Af
PHYSICAL			
Density	1.53	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.37	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.77	%	ISO 294
Density	1.52	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15	%
Melt Temperature	315 - 330	°C
Front - Zone 3 Temperature	325 - 340	°C
Middle - Zone 2 Temperature	315 - 325	°C
Rear - Zone 1 Temperature	310 - 320	°C
Mold Temperature	150 - 170	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm