



LNP™ THERMOCOMP™ Compound UF0067W

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound UF-1006 HW Z270

Product reorder name: UF0067W

LNP THERMOCOMP UF0067W is a compound based on Polyphthalamide resin containing 30% glass fiber. Added features of this material include: Hot Water Moldable, Non-Brominated & Non-Chlorinated Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1450	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.5	%	ASTM D 638
Tensile Modulus, 5 mm/min	107500	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2170	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	104000	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	128	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.9	%	ISO 527
Tensile Modulus, 1 mm/min	11310	MPa	ISO 527
Flexural Stress	189	MPa	ISO 178
Flexural Modulus, 2 mm/min	9130	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	67	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Multiaxial Impact	18	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	299	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	281	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.34E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.04E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.5E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.11E-05	1/°C	ISO 11359-2



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	277	°C	ISO 75/Af
PHYSICAL			
Density	1.45	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.2 - 1.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.5	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.2 - 1.5	%	ISO 294
Density	1.45	g/cm ³	ISO 1183
ELECTRICAL			
Dielectric Strength, in oil, 0.8 mm	29.7	kV/mm	ASTM D 149
Relative Permittivity, 1 kHz	4.05	-	ASTM D 150
Relative Permittivity, 1 MHz	3.82	-	ASTM D 150
Dissipation Factor, 1 kHz	0.0115	-	ASTM D 150
Dissipation Factor, 1 MHz	0.0128	-	ASTM D 150
FLAME CHARACTERISTICS			
UL Recognized, 94V-1 Flame Class Rating (3)	1	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating (3)	1.5	mm	UL 94



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	90 - 110	°C
Drying Time	3 - 5	hrs
Melt Temperature	280 - 320	°C
Nozzle Temperature	280 - 320	°C
Front - Zone 3 Temperature	280 - 320	°C
Middle - Zone 2 Temperature	280 - 320	°C
Rear - Zone 1 Temperature	250 - 280	°C
Mold Temperature	90 - 120	°C
Back Pressure	1 - 5	MPa
Screw Speed	30 - 100	rpm