



LNP™ THERMOCOMP™ Compound UF006S

Americas: COMMERCIAL

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

Product reorder name: UF006S

LNP THERMOCOMP™ UF006S is a compound based on Polyphthalamide resin containing 30% Glass Fiber. Added features of this material include: Heat Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	2000	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	138200	kgf/cm ²	ASTM D 638
Flexural Stress	2810	kgf/cm ²	ASTM D 790
Flexural Modulus	104100	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	74	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	258	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.28E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.22E-04	1/°C	ASTM E 831
PHYSICAL			
Density	1.43	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 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Wear Factor Washer	50	10 ⁻⁴ -10 ⁻⁵ in ³ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.48	-	ASTM D 3702 Modified
Static COF	0.43	-	ASTM D 3702 Modified



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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