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/cm²	ASTM D 638
Tensile Strain, break	2.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	138200	kgf/cm²	ASTM D 638
Flexural Stress	2810	kgf/cm²	ASTM D 790
Flexural Modulus	104100	kgf/cm²	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/cm³	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^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.48	-	ASTM D 3702 Modified
Static COF	0.43	-	ASTM D 3702 Modified

(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 melt 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.
(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 mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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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

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