LNP™ LUBRICOMP™ Compound UCL36S

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound UCL-4036 HS
Product reorder name: UCL36S

LNP LUBRICOMP UCL36S is a compound based on Polyphthalamide resin containing 15% PTFE, 30% Carbon Fiber. Added features of this material include: Wear Resistant, Heat Stabilized, Electrically Conductive.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	2200	kgf/cm²	ASTM D 638
Tensile Strain, break	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	205200	kgf/cm²	ASTM D 638
Flexural Stress	3300	kgf/cm²	ASTM D 790
Flexural Modulus	191900	kgf/cm²	ASTM D 790
Tensile Stress, break	214	MPa	ISO 527
Tensile Strain, break	1.2	%	ISO 527
Flexural Stress	334	MPa	ISO 178
Flexural Modulus	22700	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	95	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	39	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	279	°C	ASTM D 648
PHYSICAL			
Density	1.41	g/cm³	ASTM D 792
Wear Factor Washer	16	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.36	-	ASTM D 3702 Modified
Static COF	0.27	-	ASTM D 3702 Modified
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257

(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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