

## LNP\* Lubricomp\* Compound UCL36S

Americas: COMMERCIAL

Also known as: UCL-4036 HS  
Product Reorder Name: UCL36S

LNP\* Lubricomp\* UCL36S is a compound based on Polyphthalamide resin containing PTFE, Carbon Fiber. Added features of this material include: Internally Lubricated, Heat Stabilized, Electrically Conductive.

## Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, break	216	MPa	ASTM D 638
Tensile Strain, break	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	20130	MPa	ASTM D 638
Flexural Stress	324	MPa	ASTM D 790
Flexural Modulus	18820	MPa	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	Value	Unit	Standard
Izod Impact, unnotched, 23°C	939	J/m	ASTM D 4812
Izod Impact, notched, 23°C	96	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	39	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m <sup>2</sup>	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	279	°C	ASTM D 648
PHYSICAL	Value	Unit	Standard
Density	1.41	g/cm <sup>3</sup>	ASTM D 792
Wear Factor Washer	16	10 <sup>-10</sup> in <sup>5</sup> -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	Value	Unit	Standard
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257

Source GMD, last updated:09/24/2008

## Processing

Parameter	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

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

- (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.

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