LNP™ LUBRICOMP™ COMPOUND UCL36S

UCL-4036 HS
REGION ASIA

DESCRIPTION

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 PROPERTY VALUES

Revision 20190731

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
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			
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/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: Manual
Dynamic COF	0.36	-	ASTM D 3702 Modified: Manual
Static COF	0.27	-	ASTM D 3702 Modified: Manual
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+06	Ohm	ASTM D 257
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101345253	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
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	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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