



LNP™ LUBRICOMP™ Compound UX06427

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound UCL-4036 A HS HW

Product reorder name: UX06427

LNP LUBRICOMP UX06427 is a compound based on PPA containing 30% Carbon Fiber, 15% PTFE. Added features of this grade include: Heat Stabilized, Hot Water Moldable, Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	2280	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	2280	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.2	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	256900	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	3170	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	3170	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	175300	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	227	MPa	ISO 527
Tensile Stress, break, 5 mm/min	227	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.3	%	ISO 527
Tensile Strain, break, 5 mm/min	1.3	%	ISO 527
Tensile Modulus, 1 mm/min	22770	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	309	MPa	ISO 178
Flexural Modulus, 2 mm/min	19640	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	65	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Multiaxial Impact	28	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	296	°C	ASTM D 648



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THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	284	°C	ASTM D 648
CTE, -30°C to 30°C, flow	2.2E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	3.4E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	298	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	284	°C	ISO 75/Af
PHYSICAL			
Density	1.42	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.4	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.06 - 0.09	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.9	%	ASTM D 955
Wear Factor Washer	26	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.34	-	ASTM D 3702 Modified
Static COF	0.33	-	ASTM D 3702 Modified
Density	1.41	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.6	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.06	%
Minimum Moisture Content	0.03	%
Melt Temperature	330 - 345	°C
Front - Zone 3 Temperature	325 - 330	°C
Rear - Zone 1 Temperature	320 - 325	°C
Mold Temperature	65 - 95	°C
Back Pressure	0.4	MPa
Screw Speed	30 - 60	rpm