



LNP™ LUBRICOMP™ Compound UX06425

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound UFL-4022 A HS HW

Product reorder name: UX06425

LNP LUBRICOMP UX06425 is a compound based on Polyphthalamide (PPA) containing 10% Glass Fiber, 10% PTFE. Added features of this material include: Wear Resistant, Hot Water Moldable and Heat Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	900	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	67400	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1340	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	58200	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	85	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.4	%	ISO 527
Tensile Strain, break, 5 mm/min	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	6420	MPa	ISO 527
Flexural Stress	126	MPa	ISO 178
Flexural Modulus, 2 mm/min	5440	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	20	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Multiaxial Impact	12	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	37	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	12	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	293	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	260	°C	ASTM D 648
CTE, -30°C to 30°C, flow	4.1E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	7.5E-05	1/°C	ASTM D 696



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THERMAL			
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	289	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	254	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.34	-	ASTM D 792
Density	1.33	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.31	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.7 - 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 3	%	ASTM D 955
Wear Factor Washer	15	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.36	-	ASTM D 3702 Modified
Static COF	0.37	-	ASTM D 3702 Modified
Moisture Absorption (23°C / 50% RH)	0.5	%	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