



LNP™ LUBRICOMP™ Compound UL002S

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound UL-4020 HS

Product reorder name: UL002S

LNP LUBRICOMP UL002S is a compound based on Polyphthalamide resin containing 10% PTFE. Added features of this grade include: Heat Stabilized, Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	610	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	610	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.2	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	32300	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1070	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1070	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	30300	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	58	MPa	ISO 527
Tensile Stress, break, 5 mm/min	60	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.1	%	ISO 527
Tensile Strain, break, 5 mm/min	2.2	%	ISO 527
Tensile Modulus, 1 mm/min	3210	MPa	ISO 527
IMPACT			
Izod Impact, unnotched, 23°C	46	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Multiaxial Impact	5	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	28	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	27	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m ²	ISO 180/1A
PHYSICAL			
Density	1.25	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.47	%	ASTM D 570



LNP™ LUBRICOMP™ Compound UL002S

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.9 - 2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 0.9	%	ASTM D 955
Wear Factor Washer	20	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	-1	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.26	-	ASTM D 3702 Modified
Static COF	0.16	-	ASTM D 3702 Modified
Density	1.26	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.73	%	ISO 62



LNP™ LUBRICOMP™ Compound UL002S

Americas: COMMERCIAL

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