



LNP™ LUBRICOMP™ Compound RN001S

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound NYKON R- HS

Product reorder name: RN001S

LNP LUBRICOMP RN001S is a compound based on Nylon 66 resin containing 2% MOS2. Added features of this material include: Wear Resistant, Heat Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	850	kgf/cm ²	ASTM D 638
Tensile Stress, break	850	kgf/cm ²	ASTM D 638
Tensile Strain, yield	2.9	%	ASTM D 638
Tensile Strain, break	3.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	42100	kgf/cm ²	ASTM D 638
Flexural Modulus	35100	kgf/cm ²	ASTM D 790
Tensile Stress, yield	69	MPa	ISO 527
Tensile Stress, break	69	MPa	ISO 527
Tensile Strain, yield	2	%	ISO 527
Tensile Strain, break	42.2	%	ISO 527
Tensile Modulus, 1 mm/min	3910	MPa	ISO 527
Flexural Stress	107	MPa	ISO 178
Flexural Modulus	3400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	113	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	23	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	53	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	231	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	76	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	223	°C	ISO 75/Bf



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	301	°C	ISO 75/Af
PHYSICAL			
Density	1.16	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	1.01	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.03	%	ISO 294
Wear Factor Washer	103	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.75	-	ASTM D 3702 Modified
Static COF	0.55	-	ASTM D 3702 Modified
Density	1.17	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	275 - 290	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm