

LNP™ LUBRICOMP™ COMPOUND RN001S

NYKON R- HS
REGION AMERICAS

DESCRIPTION

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 PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	84	MPa	ASTM D 638
Tensile Stress, break	84	MPa	ASTM D 638
Tensile Strain, yield	2.9	%	ASTM D 638
Tensile Strain, break	3.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	4130	MPa	ASTM D 638
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	1110	J/m	ASTM D 4812
Izod Impact, notched, 23°C	26	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	2	J	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
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	301	°C	ISO 75/Af

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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: Manual
Dynamic COF	0.75	-	ASTM D 3702 Modified: Manual
Static COF	0.55	-	ASTM D 3702 Modified: Manual
Density	1.17	g/cm ³	ISO 1183
MECHANICAL PROPERTIES			
Flexural modulus	3440	MPa	ISO 178/1A
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	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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