LNP™ LUBRICOMP™ COMPOUND RN001S

NYKON R- HS
REGION ASIA

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 20190718

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
Flexural Modulus	3440	MPa	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	3900	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/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	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
PHYSICAL			
Density	1.16	g/cm³	ASTM D 792
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	1.16	g/cm³	ISO 1183
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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	

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