LNP™ LUBRICOMP™ COMPOUND RP004

RL-4540
REGION ASIA

DESCRIPTION

LNP LUBRICOMP* RP004 is a compound based on Nylon 66 resin containing 20% PTFE/Silicone. Added features of this material include: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20190609

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	5	MPa	ASTM D 638
Tensile Stress, break	60	MPa	ASTM D 638
Tensile Strain, yield	22	%	ASTM D 638
Tensile Strain, break	22.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	2750	MPa	ASTM D 638
Flexural Modulus	2060	MPa	ASTM D 790
Tensile Stress, yield	63	MPa	ISO 527
Tensile Stress, break	63	MPa	ISO 527
Tensile Strain, yield	26	%	ISO 527
Tensile Strain, break	26.6	%	ISO 527
Tensile Modulus, 1 mm/min	2730	MPa	ISO 527
Flexural Stress	82	MPa	ISO 178
Flexural Modulus	2000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	347	J/m	ASTM D 4812
Izod Impact, notched, 23°C	53	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	6	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	88	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	237	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	63	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.36E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.28E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	9.4E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.4E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	200	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	63	°C	ISO 75/Af
Relative Temp Index, Elec (1)	65	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	65	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	65	°C	UL 746B
PHYSICAL			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.24	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.8	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.9	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.9	%	ISO 294
Wear Factor Washer	3	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.19	-	ASTM D 3702 Modified: Manual
Static COF	0.04	-	ASTM D 3702 Modified: Manual
Density	1.24	g/cm³	ISO 1183
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-101343871	-	-
UL Recognized, 94HB Flame Class Rating	0.75	mm	UL 94

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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