



LNP™ LUBRILOY™ Compound RX05498

Americas: COMMERCIAL

Also known as: LNP™ LUBRILOY™ Compound RW-HI

Product reorder name: RX05498

LNP LUBRILOY™ RX05498 is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added features of this material include: High Impact, Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	610	kgf/cm ²	ASTM D 638
Tensile Stress, break	540	kgf/cm ²	ASTM D 638
Tensile Strain, yield	8	%	ASTM D 638
Tensile Strain, break	31	%	ASTM D 638
Tensile Modulus, 50 mm/min	22600	kgf/cm ²	ASTM D 638
Flexural Stress	820	kgf/cm ²	ASTM D 790
Flexural Modulus	21200	kgf/cm ²	ASTM D 790
Tensile Stress, yield	55	MPa	ISO 527
Tensile Stress, break	54	MPa	ISO 527
Tensile Strain, yield	16	%	ISO 527
Tensile Strain, break	64	%	ISO 527
Tensile Modulus, 1 mm/min	2160	MPa	ISO 527
Flexural Stress	74	MPa	ISO 178
Flexural Modulus	2000	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	43	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	774	cm-kgf	ASTM D 3763
Multiaxial Impact	668	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	137	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	19	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	206	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	63	°C	ASTM D 648



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THERMAL			
CTE, -40°C to 40°C, flow	1.21E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.12E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.21E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.13E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	188	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	67	°C	ISO 75/Af
PHYSICAL			
Density	1.1	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.7	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2.4 - 2.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2.4 - 2.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	2.43 - 2.6	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	2.43 - 2.6	%	ISO 294
Wear Factor Washer	8	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.31	-	ASTM D 3702 Modified
Static COF	0.18	-	ASTM D 3702 Modified
Density	1.1	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	1.12	%	ISO 62



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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	280 - 305	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm