



LNP™ LUBRICOMP™ Compound RX05487

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound RAL-4722 LW

Product reorder name: RX05487

LNP LUBRICOMP RX05487 is a compound based on Nylon 66 containing 10% Aramid Fiber, 10% Lubricant. Added features of this material are: Low Warpage, Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	830	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	830	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	8.2	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	8.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	37800	kgf/cm ²	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	33300	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	79	MPa	ISO 527
Tensile Stress, break, 5 mm/min	79	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	8.9	%	ISO 527
Tensile Strain, break, 5 mm/min	8.9	%	ISO 527
Tensile Modulus, 1 mm/min	3620	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	102	MPa	ISO 178
Flexural Modulus, 2 mm/min	3320	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	53	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Multiaxial Impact	11	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	37	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	249	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	144	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.67E+01	1/°C	ASTM E 831



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, xflow	7.62E+01	1/°C	ASTM E 831
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	235	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	116	°C	ISO 75/Af
PHYSICAL			
Density	1.21	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.73	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 3	%	ASTM D 955
Wear Factor Washer	17	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	0 - 0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.41	-	ASTM D 3702 Modified
Static COF	0.35	-	ASTM D 3702 Modified
Density	1.21	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	1.1	%	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