

## LNP\* Lubricomp\* Compound RFN14

Americas: COMMERCIAL

Also known as: LUBRICOMP RFL-4214  
Product Reorder Name: RFN14

LNP\* Lubricomp\* RFN14 is a compound based on Nylon 6/6 containing Glass Fiber and MOS2 Lubricant. Characteristics are: Internally Lubricated.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, brk, Type I, 5 mm/min	135	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	8850	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	205	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	7450	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	134	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.9	%	ISO 527
Tensile Modulus, 1 mm/min	8520	MPa	ISO 527
Flexural Stress	204	MPa	ISO 178
Flexural Modulus, 2 mm/min	7260	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	401	J/m	ASTM D 4812
Izod Impact, notched, 23°C	47	J/m	ASTM D 256
Multiaxial Impact	1	J	ISO 6603
Instrumented Impact Total Energy, 23°C	5	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	260	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	249	°C	ASTM D 648
CTE, -30°C to 30°C, flow	4.E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	7.81E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	258	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	245	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.33	-	ASTM D 792
Density	1.32	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.67	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8 - 2	%	ASTM D 955
Wear Factor Washer	103	10 <sup>-10</sup> in <sup>5</sup> -min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	1	10 <sup>-10</sup> in <sup>5</sup> -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.41	-	ASTM D 3702 Modified
Static COF	0.45	-	ASTM D 3702 Modified
Moisture Absorption (23°C / 50% RH)	0.96	%	ISO 62

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

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