

## LNP\* Lubriloy\* Compound RX05498 Americas: COMMERCIAL

**Also known as: RW-HI**

**Product Reorder Name: RX05498**

LNP LUBRILLOY\* RX05498 is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added features of this material include: High Impact.

### Property

<b>TYPICAL PROPERTIES <sup>(1)</sup></b>			
<b>MECHANICAL</b>	<b>Value</b>	<b>Unit</b>	<b>Standard</b>
Tensile Stress, yield	59	MPa	ASTM D 638
Tensile Stress, break	53	MPa	ASTM D 638
Tensile Strain, yield	8	%	ASTM D 638
Tensile Strain, break	31	%	ASTM D 638
Tensile Modulus, 50 mm/min	2220	MPa	ASTM D 638
Flexural Stress	80	MPa	ASTM D 790
Flexural Modulus	2080	MPa	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
<b>IMPACT</b>	<b>Value</b>	<b>Unit</b>	<b>Standard</b>
Izod Impact, notched, 23°C	427	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	76	J	ASTM D 3763
Multiaxial Impact	65	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	137	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	19	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>	<b>Value</b>	<b>Unit</b>	<b>Standard</b>
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

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
<b>PHYSICAL</b>	<b>Value</b>	<b>Unit</b>	<b>Standard</b>
Density	1.1	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.7	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2.4 - 2.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2.4 - 2.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	2.43 - 2.6	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	2.43 - 2.6	%	ISO 294
Wear Factor Washer	8	10 <sup>-10</sup> in <sup>5</sup> -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 <sup>3</sup>	ISO 1183
Moisture Absorption (23°C / 50% RH)	1.12	%	ISO 62

Source GMD, last updated:09/30/2004

## Processing

Parameter		
Injection Molding	Value	Unit
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

Source GMD, last updated:09/30/2004

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.

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