

## LNP\* Lubriloy\* Compound RF206

## Europe-Africa-Middle East: COMMERCIAL

**Also known as: RF-30**

**Product Reorder Name: RF206**

LNP LUBRILOY\* RF206H is a compound based on Nylon 66 resin containing Glass Fiber, Lubricants, Proprietary Lubricant. Added features of this material include: Internally Lubricated.

### Property

<b>TYPICAL PROPERTIES <sup>(1)</sup></b>			
<b>MECHANICAL</b>	<b>Value</b>	<b>Unit</b>	<b>Standard</b>
Tensile Stress, break	122	MPa	ASTM D 638
Tensile Strain, break	2.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	8890	MPa	ASTM D 638
Flexural Stress	178	MPa	ASTM D 790
Flexural Modulus	6820	MPa	ASTM D 790
Tensile Stress, break	121	MPa	ISO 527
Tensile Strain, break	2.7	%	ISO 527
Tensile Modulus, 1 mm/min	8200	MPa	ISO 527
Flexural Stress	192	MPa	ISO 178
Flexural Modulus	8500	MPa	ISO 178
<b>IMPACT</b>	<b>Value</b>	<b>Unit</b>	<b>Standard</b>
Izod Impact, unnotched, 23°C	758	J/m	ASTM D 4812
Izod Impact, notched, 23°C	122	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	12	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	48	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	12	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	258	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	241	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.67E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.91E-05	1/°C	ASTM E 831

CTE, -40°C to 40°C, flow	3.69E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.91E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	238	°C	ISO 75/Af
<b>PHYSICAL</b>	<b>Value</b>	<b>Unit</b>	<b>Standard</b>
Density	1.24	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.35	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.3 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.1 - 1.2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.32 - 0.44	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.09 - 1.24	%	ISO 294
Wear Factor Washer	29	10 <sup>-10</sup> in <sup>5</sup> -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.62	-	ASTM D 3702 Modified
Static COF	0.43	-	ASTM D 3702 Modified
Density	1.24	g/cm <sup>3</sup>	ISO 1183

Source GMD, last updated:10/06/2004

## Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	270 - 280	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:10/06/2004

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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