

# LNPTM LUBRILOYTM COMPOUND RF203XXH

RF-15 HC

## DESCRIPTION

LNP LUBRILOY RF203XXH compound is based on Nylon 6/6 resin containing 15% glass fiber and proprietary lubricant. Added features of this grade include: Wear Resistant, Healthcare.

### GENERAL INFORMATION

Features	Wear resistant, Healthcare/Formula lock, No PFAS intentionally added
Fillers	Glass Fiber
Polymer Types	Polyamide 66 (Nylon 66)
Processing Techniques	Injection Molding

### INDUSTRY

### SUB INDUSTRY

Hygiene and Healthcare	Pharmaceutical Packaging and Drug Delivery, Surgical devices, General Healthcare, Patient Testing
Packaging	Industrial Packaging

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL<sup>(1)</sup></b>			
Tensile Stress, brk, Type I, 5 mm/min	87	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	3.7	%	ASTM D638
Tensile Modulus, 5 mm/min	4890	MPa	ASTM D638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	128	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	4180	MPa	ASTM D790
Tensile Stress, break, 5 mm/min	90	MPa	ISO 527
Tensile Strain, break, 5 mm/min	3.8	%	ISO 527
Flexural Stress	140	MPa	ISO 178
Flexural Modulus, 2 mm/min	5500	MPa	ISO 178
<b>IMPACT<sup>(1)</sup></b>			
Izod Impact, unnotched, 23°C	646	J/m	ASTM D4812
Izod Impact, notched, 23°C	83	J/m	ASTM D256
Izod Impact, unnotched 80*10*4 +23°C	30	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m <sup>2</sup>	ISO 180/1A
<b> THERMAL<sup>(2)</sup></b>			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	232	°C	ISO 75/Af
<b>PHYSICAL<sup>(1)</sup></b>			
Specific Gravity	1.12	-	ASTM D792
Density	1.13	g/cm <sup>3</sup>	ASTM D792
Wear Factor Washer	70	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.36	-	ASTM D3702 Modified: Manual
Static COF	0.3	-	ASTM D3702 Modified: Manual

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.13	g/cm <sup>3</sup>	ISO 1183
<b>INJECTION MOLDING <sup>(2)</sup></b>			
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	