

Revision 20231109

LNPTM LUBRILOYTM COMPOUND RF206AXH

RF-30 HC

DESCRIPTION

LNP LUBRILOY RF206AXH compound is based on Nylon 6/6 resin containing 30% 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** MECHANICAL (1) Tensile Stress, brk, Type I, 5 mm/min 121 MPa ASTM D638 Tensile Strain, brk, Type I, 5 mm/min 2.5 ASTM D638 % 8760 MPa ASTM D638 Tensile Modulus, 5 mm/min Flexural Stress, brk, 1.3 mm/min, 50 mm span 173 MPa ASTM D790 Flexural Modulus, 1.3 mm/min, 50 mm span 7060 MPa ASTM D790 Tensile Stress, break, 5 mm/min 118 MPa ISO 527 Tensile Strain, break, 5 mm/min 2.3 % ISO 527 Tensile Modulus, 1 mm/min ISO 527 8460 MPa Flexural Stress 167 MPa ISO 178 Flexural Modulus, 2 mm/min 7200 MPa ISO 178 IMPACT (1) Izod Impact, unnotched, 23°C ASTM D4812 690 J/m Izod Impact, notched, 23°C 114 J/m ASTM D256 Multiaxial Impact 3 ISO 6603 J 13 ASTM D3763 Instrumented Dart Impact Total Energy, 23°C T Izod Impact, unnotched 80*10*4 +23°C 35 ISO 180/1U kJ/m² Izod Impact, notched 80*10*4 +23°C 9 kJ/m² ISO 180/1A THERMAL (1) °C HDT, 0.45 MPa, 3.2 mm, unannealed 258 ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed °C 241 ASTM D648 CTE, -30°C to 30°C, flow 3.8E-05 1/°C ASTM D696 ASTM D696 CTE, -30°C to 30°C, xflow 7.5E-05 1/°C

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CHEMISTRY THAT MATTERS



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	252	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	224	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Density	1.24	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.38	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.6	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1.2	%	ASTM D955
Wear Factor Washer	45	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.4	-	ASTM D3702 Modified: Manual
Static COF	0.4	-	ASTM D3702 Modified: Manual
Moisture Absorption (23°C / 50% RH)	0.66	%	ISO 62
INJECTION MOLDING (3)			
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	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) 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.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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