

LNP™ LUBRILOY™ RF206AXH compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRILOY* RF206AXH is a compound based on Nylon 66 resin containing 30% Glass Fiber, Proprietary Lubricant, Added features of this material include: Wear Resistant, Healthcare.

Also known as: LNP* LUBRILOY* Compound RF-30 HC

Product reorder name: RF206AXH

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Lubricant		
Features	Good Wear Resistance		
	Lubricated		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.60	%	
Across Flow : 24 hr	1.2	%	
Water Absorption			
24 hr, 50% RH	0.38	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.66	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8770	MPa	ASTM D638
--	8470	MPa	ISO 527-2/1
Tensile Strength			
Break ²	121	MPa	ASTM D638
Break	118	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.5	%	ASTM D638
Break	2.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	7060	MPa	ASTM D790
-- ⁵	7200	MPa	ISO 178
Flexural Stress			
--	167	MPa	ISO 178
Break, 50.0 mm Span ⁶	173	MPa	ASTM D790

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.40		
vs. Itself - Static	0.40		
Wear Factor - Washer	45.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C ⁷	9.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	690	J/m	ASTM D4812
23°C ⁸	35	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	13.3	J	ASTM D3763
--	3.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	258	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	252	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	241	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	224	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.8E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.5E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	271 to 282	°C	
Mold Temperature	82.2 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		

8.	80*10*4
9.	80*10*4 mm
10.	80*10*4 mm

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