

LNP™ LUBRILOY™ RF203XXH compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRILOY RF203XXH is a compound based on Nylon 66 resin containing 15% Glass Fiber, Proprietary Lubricant. Added features of this material include: Wear Resistant, Healthcare.

Also known as: LNP* LUBRILOY* Compound RF-15 HC

Product reorder name: RF203XXH

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Lubricant		
Features	Good Wear Resistance		
	Lubricated		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.12	g/cm ³	ASTM D792
--	1.13	g/cm ³	ISO 1183, ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	4890	MPa	ASTM D638
Tensile Strength			
Break ²	87.0	MPa	ASTM D638
Break	90.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	3.7	%	ASTM D638
Break	3.8	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	4180	MPa	ASTM D790
-- ⁵	5500	MPa	ISO 178
Flexural Stress			
--	140	MPa	ISO 178
Break, 50.0 mm Span ⁶	128	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.36		
vs. Itself - Static	0.30		
Wear Factor - Washer	70.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	83	J/m	ASTM D256
23°C ⁷	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	650	J/m	ASTM D4812
23°C ⁸	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁹ (1.8 MPa, Unannealed, 64.0 mm Span)	232	°C	ISO 75-2/Af
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		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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