

LNP™ LUBRILOY™ RF206 compound

Polyamide 66

SABIC Innovative Plastics Europe

Message:

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.

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

Product reorder name: RF206

General Information			
UL YellowCard	E45329-101282646		
Filler / Reinforcement	Glass Fiber		
Additive	Lubricant		
Features	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.30 to 0.40	%	ASTM D955
Across Flow : 24 hr	1.1 to 1.2	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.32 to 0.44	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.35	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8890	MPa	ASTM D638
--	8200	MPa	ISO 527-2/1
Tensile Strength			
Break	122	MPa	ASTM D638
Break	121	MPa	ISO 527-2
Tensile Elongation			
Break	2.6	%	ASTM D638
Break	2.7	%	ISO 527-2
Flexural Modulus			
--	6830	MPa	ASTM D790
--	8500	MPa	ISO 178
Flexural Strength			
--	179	MPa	ASTM D790
--	193	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.62		

vs. Itself - Static	0.43		
Wear Factor - Washer	29.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C ²	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	760	J/m	ASTM D4812
23°C ³	49	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	12.5	J	ASTM D3763
--	3.42	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
1.8 MPa, Unannealed, 3.20 mm	241	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	238	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.7E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.9E-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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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