LNP™ LUBRILOY™ RX99650 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRILOY* RX99650 is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRILOY* Compound PDX-R-99650
Product reorder name: RX99650

General Information			
Additive	Lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.10	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	2.4 - 2.6	%	ASTM D955
Transverse flow: 24 hours	2.4 - 2.6	%	ASTM D955
Vertical flow direction: 24 hours	2.4 - 2.6	%	ISO 294-4
Flow direction: 24 hours	2.4 - 2.6	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.73	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.1	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2220	MPa	ASTM D638
--	2160	MPa	ISO 527-2/1
Tensile Strength			
Yield	60.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2
Fracture	53.1	MPa	ASTM D638
Fracture	54.5	MPa	ISO 527-2
Tensile Elongation			
Yield	5.0	%	ASTM D638
Yield	16	%	ISO 527-2
Fracture	31	%	ASTM D638
Fracture	64	%	ISO 527-2
Flexural Modulus			
--	2080	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Strength			

--	80.7	MPa	ASTM D790
--	74.6	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.31		ASTM D3702 Modified
With Self-Static	0.18		ASTM D3702 Modified
Wear Factor - Washer	8.00	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	430	J/m	ASTM D256
23°C [2]	19	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	No Break		ASTM D4812
23°C [3]	140	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	76.0	J	ASTM D3763
--	65.6	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	207	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span [4]	189	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	63.9	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [5]	67.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	1.2E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	1.1E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 - 0.25	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	282 - 293	°C	
Front Temperature	293 - 304	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	93.3 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

Recommended distributors for this material

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