LNP™ LUBRICOMP™ RX03643H compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RX03643H is a compound based on Nylon 66 resin containing Proprietary Filler(s). Added feature of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound PDX-R-03643 HC
Product reorder name: RX03643H

General Information			
Filler / Reinforcement	Proprietary		
Features	Good Wear Resistance		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.25	g/cm³	ASTM D792
--	1.24	g/cm³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	1.0 to 1.2	%	ASTM D955
Across Flow : 24 hr	0.70 to 0.90	%	ASTM D955
Across Flow : 24 hr	0.79	%	ISO 294-4
Flow : 24 hr	1.1	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.90	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	5520	MPa	ASTM D638
--	5310	MPa	ISO 527-2/1
Tensile Strength			
Yield	96.5	MPa	ASTM D638
Yield	95.0	MPa	ISO 527-2
Break	96.5	MPa	ASTM D638
Break	95.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.4	%	ASTM D638
Yield	2.3	%	ISO 527-2
Break	2.4	%	ASTM D638
Break	2.3	%	ISO 527-2
Flexural Modulus			
--	4830	MPa	ASTM D790
--	4500	MPa	ISO 178
Flexural Stress	149	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.46		
vs. Itself - Static	0.37		
Wear Factor - Washer	159	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	32	J/m	ASTM D256
23°C [2]	3.9	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	420	J/m	ASTM D4812
23°C [3]	28	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.90	J	ASTM D3763
--	2.20	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	256	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [4]	252	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	239	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [5]	221	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.3E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	4.2E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	7.4E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	7.5E-5	cm/cm/°C	ISO 11359-2
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	277 to 288	°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		
5.	80*10*4 mm		

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