LNP™ LUBRICOMP™ RFN16S compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* RFN16S is a compound based on Nylon 66 resin containing 30% Glass Fiber, 5% MOS2. Added features of this material include: Heat Stabilized, Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound RFL-4216 HS
Product reorder name: RFN16S

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer Molybdenum Disulfide Lubricant (5%)		
Features	Good Wear Resistance Heat Stabilized Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.41	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.30	%	ASTM D955
Across Flow : 24 hr	1.3	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.28	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.65	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.1	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	10700	MPa	ASTM D638
--	9900	MPa	ISO 527-2/1
Tensile Strength			
Break	161	MPa	ASTM D638
Break	163	MPa	ISO 527-2
Tensile Elongation			
Break	2.8	%	ASTM D638
Break	3.0	%	ISO 527-2
Flexural Modulus			
--	8410	MPa	ASTM D790
--	9800	MPa	ISO 178

Flexural Strength			
--	247	MPa	ASTM D790
--	255	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.43		
vs. Itself - Static	0.49		
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	80	J/m	ASTM D256
23°C [2]	8.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	870	J/m	ASTM D4812
23°C [3]	58	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	9.20	J	ASTM D3763
--	2.30	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	261	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	249	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [4]	220	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	3.2E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	6.3E-5	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 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 304	°C	
Mold Temperature	93.3 to 110	°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		

Recommended distributors for this material

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