LNP™ LUBRICOMP™ RFN18S compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* RFN18S is a compound based on Nylon 66 resin containing Glass Fiber, MOS2. Added features of this material include: Heat Stabilized, Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound RFL-4218 HS
Product reorder name: RFN18S

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	Molybdenum disulfide lubricant heat stabilizer		
Features	Good wear resistance Thermal Stability Lubrication		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.51	g/cm³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow: 24 hours	0.30	%	ASTM D955
Transverse flow: 24 hours	1.1	%	ASTM D955
Lateral flow: 24 hours	1.2	%	ISO 294-4
Traffic: 24 hours	0.35	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.62	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.0	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	15500	MPa	ASTM D638
--	14000	MPa	ISO 527-2/1
Tensile Strength			
Fracture	178	MPa	ASTM D638
Fracture	192	MPa	ISO 527-2
Tensile Elongation			
Fracture	1.8	%	ASTM D638
Fracture	2.2	%	ISO 527-2
Flexural Modulus			
--	10800	MPa	ASTM D790

--	13100	MPa	ISO 178
Flexural Strength			
--	268	MPa	ASTM D790
--	288	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
Dynamic	0.75		ASTM D3702 Modified
Static	0.59		ASTM D3702 Modified
Wear Factor - Washer	45.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	85	J/m	ASTM D256
23°C [2]	11	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	890	J/m	ASTM D4812
23°C [3]	59	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.70	J	ASTM D3763
--	2.50	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	259	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	251	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [4]	> 240	°C	ISO 75-2/Af
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82	°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 - 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		

Recommended distributors for this material

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