LNP™ LUBRICOMP™ RFL46ES compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFL46ES is a compound based on Nylon 6/6 containing 30% Glass Fiber, 20% PTFE. Added features of this grade include: Wear Resistant, Heat Stabilized, Easy Molding.
Also known as: LNP* LUBRICOMP* Compound RFL-4046 EM HS
Product reorder name: RFL46ES

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer PTFE Lubricant (20%)		
Features	Good Moldability Good Wear Resistance Heat Stabilized Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.55	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.50	%	
Across Flow : 24 hr	0.90 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.43	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.82	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	10900	MPa	ASTM D638
--	10400	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	146	MPa	ASTM D638
Break	145	MPa	ISO 527-2/5
Tensile Elongation			
Break [3]	2.6	%	ASTM D638
Break	2.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [4]	9280	MPa	ASTM D790
-- [5]	9270	MPa	ISO 178

Flexural Stress			
--	221	MPa	ISO 178
Break, 50.0 mm Span [6]	223	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.59		
vs. Itself - Static	0.64		
Wear Factor - Washer	12.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	97	J/m	ASTM D256
23°C [7]	9.6	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	940	J/m	ASTM D4812
23°C [8]	56	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.50	J	ASTM D3763
--	2.90	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	251	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [9]	251	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	233	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [10]	232	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.4E-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	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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		

5.	2.0 mm/min
6.	1.3 mm/min
7.	80*10*4
8.	80*10*4
9.	80*10*4 mm
10.	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