

LNP™ LUBRICOMP™ UFL36S compound

Polyphthalamide

SABIC Innovative Plastics Asia Pacific

Message:

LNP LUBRICOMP* UFL36S is a compound based on Polyphthalamide resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Heat Stabilized, Wear Resistant, Bearing Grade.
Also known as: LNP* LUBRICOMP* Compound BGU
Product reorder name: UFL36S

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	PTFE lubricant (15%) heat stabilizer		
Features	Good wear resistance Thermal Stability Lubrication		
Uses	Bearing		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow: 24 hours	0.20	%	ASTM D955
Transverse flow: 24 hours	0.80	%	ASTM D955
Vertical flow direction: 24 hours	0.82	%	ISO 294-4
Flow direction: 24 hours	0.17	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.33	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12400	MPa	ASTM D638
--	9890	MPa	ISO 527-2/1
Tensile Strength			
Fracture	197	MPa	ASTM D638
Fracture	196	MPa	ISO 527-2
Tensile Elongation (Break)	2.5	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	10800	MPa	ASTM D790
--	11200	MPa	ISO 178
Flexural Strength			
--	281	MPa	ASTM D790

--	286	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.59		ASTM D3702 Modified
With Self-Static	0.52		ASTM D3702 Modified
Wear Factor - Washer	18.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C ²	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ³	70	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.60	J	ASTM D3763
--	2.59	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	259	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	263	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	310 - 321	°C	
Middle Temperature	316 - 327	°C	
Front Temperature	327 - 338	°C	
Processing (Melt) Temp	316 - 332	°C	
Mold Temperature	149 - 171	°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		

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