

LNP™ LUBRICOMP™ UX06427 compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP UX06427 is a compound based on PPA containing 30% Carbon Fiber, 15% PTFE. Added features of this grade include: Heat Stabilized, Hot Water Moldable, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound UCL-4036 A HS HW

Product reorder name: UX06427

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Heat Stabilized		
	Hot Water Moldability		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.42	g/cm ³	ASTM D792
--	1.41	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.060 to 0.090	%	
Across Flow : 24 hr	0.60 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.40	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	25200	MPa	ASTM D638
--	22800	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	224	MPa	ASTM D638
Yield	227	MPa	ISO 527-2/5
Break ³	224	MPa	ASTM D638
Break	227	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.3	%	ASTM D638

Yield	1.3	%	ISO 527-2/5
Break ⁵	1.3	%	ASTM D638
Break	1.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	17200	MPa	ASTM D790
-- ⁷	19600	MPa	ISO 178
Flexural Stress			
--	309	MPa	ISO 178
Yield, 50.0 mm Span ⁸	311	MPa	ASTM D790
Break, 50.0 mm Span ⁹	311	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.34		
vs. Itself - Static	0.33		
Wear Factor - Washer	26.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Minimum Moisture Content	0.030	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ¹⁰	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	650	J/m	ASTM D4812
23°C ¹¹	40	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	2.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	296	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	298	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	284	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	284	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	3.4E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Time	4.0	hr	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		

7.	2.0 mm/min
8.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT