

LNP™ LUBRICOMP™ UX06425 compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP UX06425 is a compound based on Polyphthalamide (PPA) containing 10% Glass Fiber, 10% PTFE. Added features of this material include: Wear Resistant, Hot Water Moldable and Heat Stabilized.

Also known as: LNP* LUBRICOMP* Compound UFL-4022 A HS HW

Product reorder name: UX06425

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Heat Stabilizer		
	PTFE Lubricant (10%)		
Features	Good Wear Resistance		
	Heat Stabilized		
	Hot Water Moldability		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.34	g/cm ³	
--	1.33	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.70 to 0.90	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.31	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6610	MPa	ASTM D638
--	6420	MPa	ISO 527-2/1
Tensile Strength			
Break ²	89.0	MPa	ASTM D638
Break	85.0	MPa	ISO 527-2/5
Tensile Strain			
Yield	1.4	%	ISO 527-2/5
Break ³	1.5	%	ASTM D638
Break	1.5	%	ISO 527-2/5

Flexural Modulus			
50.0 mm Span ⁴	5710	MPa	ASTM D790
-- ⁵	5450	MPa	ISO 178
Flexural Stress			
--	126	MPa	ISO 178
Break, 50.0 mm Span ⁶	132	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.36		
vs. Itself - Static	0.37		
Wear Factor			ASTM D3702 Modified
Ring	0.600	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	15.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Minimum Moisture Content	0.030	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	33	J/m	ASTM D256
23°C ⁷	3.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	200	J/m	ASTM D4812
23°C ⁸	12	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.70	J	ASTM D3763
--	1.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	293	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	289	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	260	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	254	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.5E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.060	%	
Rear Temperature	318 to 324	°C	
Front Temperature	327 to 332	°C	
Processing (Melt) Temp	329 to 343	°C	
Mold Temperature	65.0 to 93.0	°C	
Back Pressure	0.350	MPa	
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.	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

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