

LNP™ LUBRICOMP™ UFL36AS compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP UFL36AS is a Polyphthalamide (PPA) base resin containing 30% Glass Fiber, 15% PTFE. Added features of this material are: Heat Stabilized, Wear Resistant.

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

Product reorder name: UFL36AS

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Heat Stabilized		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.58	g/cm ³	ASTM D792
--	1.57	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.80 to 1.0	%	
Water Absorption			
24 hr, 50% RH	0.15	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	15400	MPa	ASTM D638
-- ²	15400	MPa	ASTM D638
--	12600	MPa	ISO 527-2/1
Tensile Strength			
Yield ³	189	MPa	ASTM D638
Yield	192	MPa	ISO 527-2/5
Break ⁴	189	MPa	ASTM D638
Break	192	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁵	1.8	%	ASTM D638

Yield	2.0	%	ISO 527-2/5
Break ⁶	1.7	%	ASTM D638
Break	2.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁷	10600	MPa	ASTM D790
-- ⁸	11300	MPa	ISO 178
Flexural Strength ⁹			ASTM D790
Yield, 50.0 mm Span	242	MPa	
Break, 50.0 mm Span	233	MPa	
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.48		
vs. Itself - Static	0.52		
Wear Factor			ASTM D3702 Modified
Ring	0.100	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	5.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	95	J/m	ASTM D256
23°C ¹⁰	9.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	710	J/m	ASTM D4812
23°C ¹¹	47	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.90	J	ASTM D3763
--	2.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	277	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	273	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.5E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	310 to 321	°C	
Middle Temperature	316 to 327	°C	
Front Temperature	327 to 338	°C	
Processing (Melt) Temp	316 to 332	°C	
Mold Temperature	149 to 171	°C	
Back Pressure	0.172 to 0.344	MPa	

Screw Speed	30 to 60	rpm
NOTE		
1.	5.0 mm/min	
2.	50 mm/min	
3.	Type I, 5.0 mm/min	
4.	Type I, 5.0 mm/min	
5.	Type I, 5.0 mm/min	
6.	Type I, 5.0 mm/min	
7.	1.3 mm/min	
8.	2.0 mm/min	
9.	1.3 mm/min	
10.	80*10*4	
11.	80*10*4	
12.	80*10*4 mm	

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