

LNP™ LUBRICOMP™ UCP36S compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* UCP36S is a compound based on PPA resin containing 30% Carbon Fiber, 15% PTFE/Silicone. Added features of this grade include: Heat Stabilized, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound UCL-4536 HS

Product reorder name: UCP36S

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
	PTFE + Silicone Lubricant (15%)		
Features	Good Wear Resistance		
	Heat Stabilized		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.11	%	
Across Flow : 24 hr	0.72	%	
Water Absorption			
24 hr, 50% RH	0.26	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.40	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	26400	MPa	ASTM D638
--	26100	MPa	ISO 527-2/1
Tensile Strength			
Break ²	235	MPa	ASTM D638
Break	229	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.3	%	ASTM D638
Break	1.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	22400	MPa	ASTM D790
-- ⁵	22200	MPa	ISO 178
Flexural Stress			

--	321	MPa	ISO 178
Break, 50.0 mm Span ⁶	326	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.35		
vs. Itself - Static	0.32		
Wear Factor			ASTM D3702 Modified
Ring	0.550	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	14.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	62	J/m	ASTM D256
23°C ⁷	6.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	490	J/m	ASTM D4812
23°C ⁸	36	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.60	J	ASTM D3763
--	1.92	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	278	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	280	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	259	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	260	°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 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.	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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