

LNP™ LUBRICOMP™ UCL36S compound

Polyphthalamide
SABIC Innovative Plastics

Message:

LNP LUBRICOMP UCL36S is a compound based on Polyphthalamide resin containing 15% PTFE, 30% Carbon Fiber. Added features of this material include: Wear Resistant, Heat Stabilized, Electrically Conductive.

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

Product reorder name: UCL36S

General Information			
UL YellowCard	E121562-101345286		
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
	PTFE Lubricant (15%)		
Features	Electrically Conductive		
	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
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	20100	MPa	ASTM D638
Tensile Strength			
Break	216	MPa	ASTM D638
Break	214	MPa	ISO 527-2
Tensile Elongation			
Break	1.6	%	ASTM D638
Break	1.2	%	ISO 527-2
Flexural Modulus			
--	18800	MPa	ASTM D790
--	22700	MPa	ISO 178
Flexural Strength			
--	324	MPa	ASTM D790
--	334	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.36		
vs. Itself - Static	0.27		
Wear Factor - Washer	16.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	96	J/m	ASTM D256
23°C ²	8.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	940	J/m	ASTM D4812
23°C ³	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	279	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		

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