

LNP™ LUBRICOMP™ UCL36ASP compound

Polyphthalamide

SABIC Innovative Plastics Europe

Message:

LNP* LUBRICOMP* UCL36ASP is a compound based on Polyphthalamide resin containing Carbon Fiber, PTFE. Added features include; Internally Lubricated, Electrically Conductive, Heat Stabilized.

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

Product reorder name: UCL36ASP

General Information			
Filler / Reinforcement	Carbon Fiber		
Additive	Heat Stabilizer		
	PTFE Lubricant		
Features	Electrically Conductive		
	Heat Stabilized		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.050 to 0.10	%	Internal Method
Water Absorption (23°C, 24 hr)	0.050 to 0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	25100	MPa	ISO 527-2/1
Tensile Stress (Break)	256	MPa	ISO 527-2/5
Tensile Strain (Break)	1.3	%	ISO 527-2/5
Flexural Modulus ¹	19900	MPa	ISO 178
Flexural Stress	340	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.33		ASTM D3702 Modified
Wear Factor - Washer	9.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	270	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	8.0E-6	cm/cm/°C	
Transverse : 23 to 60°C	5.1E-5	cm/cm/°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+3	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°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	138 to 166	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	2.0 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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