

LNP™ LUBRICOMP™ UCL16AS compound

Polyphthalamide

SABIC Innovative Plastics Europe

Message:

Internally lubricated Polyphthalamide compound, containing Carbon Fiber and PTFE. Added features include Heat Stabilized

General Information			
Filler / Reinforcement	Carbon Fiber		
Additive	Heat Stabilizer		
	PTFE Lubricant		
Features	Heat Stabilized		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	21800	MPa	ISO 527-2/1
Tensile Stress (Break)	272	MPa	ISO 527-2/5
Tensile Strain (Break)	1.4	%	ISO 527-2/5
Flexural Modulus ¹	19000	MPa	ISO 178
Flexural Stress	373	MPa	ISO 178
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
CLTE			ISO 11359-2
Flow : 23 to 60°C	7.0E-6	cm/cm/°C	
Transverse : 23 to 60°C	4.6E-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.	2.0 mm/min	
2.	80*10*4	
3.	80*10*4	

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