

# LNP<sup>TM</sup> LUBRICOMP<sup>TM</sup> COMPOUND UCL16AS

## DESCRIPTION

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

## TYPICAL PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, break, 5 mm/min	272	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	21800	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	373	MPa	ISO 178
Flexural Modulus, 2 mm/min	19000	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
CTE, 23°C to 60°C, flow	7.E-06	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	4.6E-05	1/°C	ISO 11359-2
<b>PHYSICAL</b>			
Density	1.36	g/cm <sup>3</sup>	ISO 1183
<b>INJECTION MOLDING</b>			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15	%	
Melt Temperature	315 – 330	°C	
Front - Zone 3 Temperature	325 – 340	°C	
Middle - Zone 2 Temperature	315 – 325	°C	
Rear - Zone 1 Temperature	310 – 320	°C	
Mold Temperature	150 – 170	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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