

LNP™ LUBRICOMP™ UX96507 compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP UX96507 is a compound based on PPA containing proprietary fillers. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound PDX-U-96507

Product reorder name: UX96507

General Information			
Filler / Reinforcement	Proprietary		
Features	Good Wear Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.50	g/cm ³	
--	1.49	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.010 to 0.030	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.29	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.40	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	19300	MPa	ASTM D638
--	18700	MPa	ISO 527-2/1
Tensile Strength			
Break ²	226	MPa	ASTM D638
Break	226	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.7	%	ASTM D638
Break	1.7	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	16900	MPa	ASTM D790
-- ⁵	16800	MPa	ISO 178
Flexural Stress			
--	313	MPa	ISO 178
Break, 50.0 mm Span ⁶	311	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	74	J/m	ASTM D256

23°C ⁷	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	580	J/m	ASTM D4812
23°C ⁸	38	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.00	J	ASTM D3763
--	3.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	280	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	277	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	262	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	259	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	3.2E-6	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	316 to 327	°C	
Middle Temperature	327 to 338	°C	
Front Temperature	332 to 343	°C	
Processing (Melt) Temp	321 to 349	°C	
Mold Temperature	48.9 to 104	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	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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