

LNP™ LUBRILOY™ UA200A compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP LUBRILOY* UA200A is a compound based on Polyphthalamide resin containing Aramid Fiber, Proprietary Lubricant. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRILOY* Compound UA

Product Reorder name: UA200A

General Information			
Filler / Reinforcement	Aramid fiber		
Additive	Lubricant		
Features	Good wear resistance		
	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.90 - 1.1	%	ASTM D955
Transverse flow: 24 hours	1.4 - 1.6	%	ASTM D955
Water Absorption (24 hr, 50% RH)	0.42	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	4300	MPa	ASTM D638
Tensile Strength (Break)	86.3	MPa	ASTM D638
Tensile Elongation (Break)	3.3	%	ASTM D638
Flexural Modulus	3720	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.25		ASTM D3702 Modified
With Self-Static	0.21		ASTM D3702 Modified
Wear Factor - Washer	5.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256
Unnotched Izod Impact (23°C)	600	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	254	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	118	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	4.5E-5	cm/cm/°C	ASTM E831

Lateral: -40 to 40°C	5.9E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.29	W/m/K	ASTM E1530
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	304 - 316	°C	
Middle Temperature	304 - 316	°C	
Front Temperature	304 - 316	°C	
Processing (Melt) Temp	310 - 316	°C	
Mold Temperature	121 - 149	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		

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Recommended distributors for this material

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