



LNP™ LUBRILOY™ Compound UA200A

Americas: COMMERCIAL

Also known as: LNP™ LUBRILOY™ Compound UA

Product reorder name: UA200A

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	880	kgf/cm ²	ASTM D 638
Tensile Strain, break	3.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	43800	kgf/cm ²	ASTM D 638
Flexural Stress	1330	kgf/cm ²	ASTM D 790
Flexural Modulus	37900	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	61	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	253	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	118	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.5E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.93E-05	1/°C	ASTM E 831
Thermal Conductivity	0.29	W/m-°C	ASTM E 1530
PHYSICAL			
Density	1.15	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.42	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.9 - 1.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.4 - 1.6	%	ASTM D 955
Wear Factor Washer	5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.25	-	ASTM D 3702 Modified
Static COF	0.21	-	ASTM D 3702 Modified



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15	%
Melt Temperature	310 - 315	°C
Front - Zone 3 Temperature	305 - 315	°C
Middle - Zone 2 Temperature	305 - 315	°C
Rear - Zone 1 Temperature	305 - 315	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm