LNP™ LUBRILOY™ COMPOUND UA200A

UA
REGION ASIA

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20181230

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	86	MPa	ASTM D 638
Tensile Strain, break	3.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	4290	MPa	ASTM D 638
Flexural Stress	131	MPa	ASTM D 790
Flexural Modulus	3720	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	603	J/m	ASTM D 4812
Izod Impact, notched, 23°C	32	J/m	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	1.16	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.42	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.9 – 1.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.4 – 1.6	%	ASTM D 955
Wear Factor Washer	5	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.25	-	ASTM D 3702 Modified: Manual
Static COF	0.21	-	ASTM D 3702 Modified: Manual
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	

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