



LNP* Lubricomp* Compound UX06442

Asia Pacific: COMMERCIAL

Also known as: LNP* Lubricomp* Compound U-EXP

Product reorder name: UX06442

LNP* Lubricomp* UX06442 is a compound based on Polyphthalamide resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, break	830	kgf/cm ²	ASTM D 638
Tensile Strain, break	3.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	40300	kgf/cm ²	ASTM D 638
Flexural Stress	1310	kgf/cm ²	ASTM D 790
Flexural Modulus	34800	kgf/cm ²	ASTM D 790
Tensile Stress, break	72	MPa	ISO 527
Tensile Strain, break	1.5	%	ISO 527
Tensile Modulus, 1 mm/min	2677000	MPa	ISO 527
Flexural Stress	560	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	53	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	8	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	234	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	118	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.67E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.29E-05	1/°C	ASTM E 831
Thermal Conductivity	0.29	W/m-°C	ASTM E 1530
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	106	°C	ISO 75/Af
PHYSICAL			
Density	1.16	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.4	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.2 - 1.4	%	ASTM D 955



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PHYSICAL			
Mold Shrinkage, xflow, 24 hrs	1.5 - 1.7	%	ASTM D 955
Wear Factor Washer	7	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.23	-	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