

LNP* Lubriloy* Compound UF-30

Asia Pacific: COMMERCIAL

LNP LUBRILOY* UF-30 is a compound based on Polyphthalamide resin containing Glass Fiber, Proprietary Lubricant. Added features of this material include: Internally Lubricated.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, break	155	MPa	ASTM D 638
Tensile Strain, break	2.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	9580	MPa	ASTM D 638
Flexural Stress	222	MPa	ASTM D 790
Flexural Modulus	8760	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	801	J/m	ASTM D 4812
Izod Impact, notched, 23°C	69	J/m	ASTM D 256
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	288	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	260	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.16E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.29E-05	1/°C	ASTM E 831
PHYSICAL			
Density	1.31	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.24	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.4 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.9 - 1.1	%	ASTM D 955
Wear Factor Washer	100	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.43	-	ASTM D 3702 Modified
Static COF	0.41	-	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