+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ LUBRICOMP™ Compound OFL36A

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound OFL-4036
Product reorder name: OFL36A

LNP LUBRICOMP OFL36A is a compound based on PPS - Branched resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1470	kgf/cm²	ASTM D 638
Tensile Strain, break	1.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	125800	kgf/cm²	ASTM D 638
Flexural Stress	2030	kgf/cm²	ASTM D 790
Flexural Modulus	112400	kgf/cm²	ASTM D 790
Tensile Stress, break	124	MPa	ISO 527
Tensile Strain, break	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	11100	MPa	ISO 527
Flexural Stress	197	MPa	ISO 178
Flexural Modulus	10950	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	56	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	34	cm-kgf	ASTM D 3763
Multiaxial Impact	20	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	26	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	268	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.34E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.86E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.36E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.01E-05	1/°C	ISO 11359-2

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	266	°C	ISO 75/Af
PHYSICAL			
Density	1.69	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.13 - 0.18	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.3 - 0.48	%	ISO 294
Wear Factor Washer	33	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.44	-	ASTM D 3702 Modified
Static COF	0.35	-	ASTM D 3702 Modified
Density	1.69	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.04	%	ISO 62

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Melt Temperature	315 - 320	°C
Front - Zone 3 Temperature	330 - 345	°C
Middle - Zone 2 Temperature	320 - 330	°C
Rear - Zone 1 Temperature	305 - 315	°C
Mold Temperature	140 - 165	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm