



LNP™ LUBRICOMP™ Compound OCL36

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound OCL-4036

Product reorder name: OCL36

LNP LUBRICOMP™ OCL36 is a compound based on PPS - Linear resin containing 30% Carbon Fiber, 15% PTFE. Added features of this material include: Electrically Conductive, Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1720	kgf/cm ²	ASTM D 638
Tensile Strain, break	1.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	219400	kgf/cm ²	ASTM D 638
Flexural Stress	2640	kgf/cm ²	ASTM D 790
Flexural Modulus	215300	kgf/cm ²	ASTM D 790
Tensile Stress, break	167	MPa	ISO 527
Tensile Strain, break	1.1	%	ISO 527
Tensile Modulus, 1 mm/min	30680	MPa	ISO 527
Flexural Stress	262	MPa	ISO 178
Flexural Modulus	21110	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	45	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	153	cm-kgf	ASTM D 3763
Multiaxial Impact	30	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	31	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	267	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.62E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.42E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.76E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.44E-05	1/°C	ISO 11359-2



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	263	°C	ISO 75/Af
PHYSICAL			
Density	1.52	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.04 - 0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.3 - 0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.04 - 0.1	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.36 - 0.4	%	ISO 294
Wear Factor Washer	19	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.39	-	ASTM D 3702 Modified
Static COF	0.34	-	ASTM D 3702 Modified
Density	1.52	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.03	%	ISO 62
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1.8	mm	UL 94 by SABIC-IP



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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