



LNP™ LUBRICOMP™ Compound RCL36

Americas: COMMERCIAL

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

Product reorder name: RCL36

LNP LUBRICOMP RCL36 is a compound based on Nylon 66 resin containing 15% PTFE, 30% Carbon Fiber. Added features of this material include: Wesr Resistant, Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1850	kgf/cm ²	ASTM D 638
Tensile Strain, break	0.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	330400	kgf/cm ²	ASTM D 638
Flexural Stress	3790	kgf/cm ²	ASTM D 790
Flexural Modulus	187700	kgf/cm ²	ASTM D 790
Tensile Stress, break	245	MPa	ISO 527
Tensile Strain, break	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	22600	MPa	ISO 527
Flexural Stress	396	MPa	ISO 178
Flexural Modulus	22700	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	108	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	10	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	101	cm-kgf	ASTM D 3763
Multiaxial Impact	40	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	68	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	255	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	>240	°C	ISO 75/Af
PHYSICAL			
Density	1.38	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.5	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1	%	ASTM D 955



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PHYSICAL			
Mold Shrinkage, xflow, 24 hrs (5)	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.11	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.72	%	ISO 294
Wear Factor Washer	15	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.36	-	ASTM D 3702 Modified
Static COF	0.3	-	ASTM D 3702 Modified
Density	1.38	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	280 - 305	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm