



LNP™ LUBRICOMP™ Compound ECL36XXQ

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound ECL36XXQ

Product reorder name: ECL36XXQ

LNP™ LUBRICOMP™ ECL36XXQ is a compound based on Polyetherimide containing 30% Carbon Fiber, 15% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	2260	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	0.9	%	ASTM D 638
Tensile Modulus, 5 mm/min	335000	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	3300	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	268100	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	226	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1	%	ISO 527
Tensile Modulus, 1 mm/min	30420	MPa	ISO 527
IMPACT			
Izod Impact, unnotched, 23°C	42	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	119	cm-kgf	ASTM D 3763
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	208	°C	ASTM D 648
PHYSICAL			
Specific Gravity	1.39	-	ASTM D 792
Density	1.39	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.01 - 0.05	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.1 - 0.4	%	ASTM D 955
Wear Factor Washer	22	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.39	-	ASTM D 3702 Modified
Static COF	0.42	-	ASTM D 3702 Modified
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+04	Ohm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	360 - 365	°C
Front - Zone 3 Temperature	365 - 375	°C
Middle - Zone 2 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm