



LNP™ LUBRICOMP™ Compound LCL36E

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound LCL-4036 EM

Product reorder name: LCL36E

LNP™ LUBRICOMP™ LCL36E is a compound based on PEEK containing 30% Carbon Fiber and 15% PTFE. Added features of this grade include: Easy Molding, Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	2120	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.6	%	ASTM D 638
Tensile Modulus, 5 mm/min	218600	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	3640	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	234500	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	140	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1	%	ISO 527
Tensile Modulus, 1 mm/min	17520	MPa	ISO 527
Flexural Stress	321	MPa	ISO 178
Flexural Modulus, 2 mm/min	22720	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	66	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
Multiaxial Impact	33	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	112	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	41	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	342	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	332	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.4E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	2.9E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	342	°C	ISO 75/Bf



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	329	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.51	-	ASTM D 792
Density	1.5	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.04	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.31	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.81	%	ASTM D 955
Wear Factor Washer	18	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	1	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.38	-	ASTM D 3702 Modified
Static COF	0.38	-	ASTM D 3702 Modified
Moisture Absorption (23°C / 50% RH)	0.04	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	150	°C
Drying Time	4 - 6	hrs
Front - Zone 3 Temperature	380 - 400	°C
Middle - Zone 2 Temperature	380 - 400	°C
Rear - Zone 1 Temperature	370 - 380	°C
Mold Temperature	175 - 190	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm