



LNP™ LUBRICOMP™ Compound LFL36E

Americas: COMMERCIAL

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

Product reorder name: LFL36E

LNP LUBRICOMP LFL36E is a compound based on Polyetheretherketone containing 30% Glass Fiber, 15% PTFE. Added features of this material are: Wear Resistant, Easy Molding.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1790	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1730	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2	%	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2680	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	119300	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	177	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2	%	ISO 527
Tensile Modulus, 1 mm/min	12240	MPa	ISO 527
Flexural Modulus, 2 mm/min	11360	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	87	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	10	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	132	cm-kgf	ASTM D 3763
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	339	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	327	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.8E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	3.6E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	337	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	322	°C	ISO 75/Af
PHYSICAL			
Density	1.64	g/cm ³	ASTM D 792
Wear Factor Washer	64	10 ⁻⁴ -10 in ³ -min/ft-lb-hr	ASTM D 3702 Modified



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PHYSICAL			
Wear Factor Ring	9	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.49	-	ASTM D 3702 Modified
Static COF	0.73	-	ASTM D 3702 Modified



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.1	%
Melt Temperature	380 - 390	°C
Front - Zone 3 Temperature	380 - 395	°C
Middle - Zone 2 Temperature	365 - 375	°C
Rear - Zone 1 Temperature	350 - 360	°C
Mold Temperature	140 - 165	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm