



LNP™ LUBRICOMP™ Compound LGL33

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound PDX-L-90086

Product reorder name: LGL33

LNP™ LUBRICOMP™ LGL33 is a compound based on Polyetheretherketone resin containing Graphite and PTFE. Added feature of this grade is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	660	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3.9	%	ASTM D 638
Tensile Modulus, 5 mm/min	43900	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1210	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	44600	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	65	MPa	ISO 527
Tensile Strain, break, 5 mm/min	3.8	%	ISO 527
Tensile Modulus, 1 mm/min	4290	MPa	ISO 527
Flexural Stress	116	MPa	ISO 178
Flexural Modulus, 2 mm/min	4240	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	36	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Multiaxial Impact	14	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	57	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	23	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	298	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	161	°C	ASTM D 648
CTE, -30°C to 30°C, flow	4.1E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.6E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	247	°C	ISO 75/Bf



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	154	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.47	-	ASTM D 792
Density	1.46	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.03	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.5	%	ASTM D 955
Wear Factor Washer	46	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.36	-	ASTM D 3702 Modified
Static COF	0.39	-	ASTM D 3702 Modified
Moisture Absorption (23°C / 50% RH)	0.05	%	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