



LNP™ LUBRICOMP™ Compound SFP36

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound SFL-4536

Product reorder name: SFP36

LNP LUBRICOMP SFP36 is a compound based on Nylon 12 resin containing 30% Glass Fiber 15% PTFE/Silicone. Added feature of this grade is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1270	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1190	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	3.2	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	92400	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1810	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1790	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	76500	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	129	MPa	ISO 527
Tensile Stress, break, 5 mm/min	129	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.9	%	ISO 527
Tensile Strain, break, 5 mm/min	3	%	ISO 527
Tensile Modulus, 1 mm/min	9070	MPa	ISO 527
Flexural Stress	191	MPa	ISO 178
Flexural Modulus, 2 mm/min	7920	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	101	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	14	cm-kgf/cm	ASTM D 256
Multiaxial Impact	35	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	100	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	58	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	14	kJ/m ²	ISO 180/1A



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THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	177	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	172	°C	ASTM D 648
CTE, -30°C to 30°C, flow	2.75E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	8.E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	177	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	169	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.39	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.15	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 0.9	%	ASTM D 955
Wear Factor Washer	14	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	0.67	-	ASTM D 3702 Modified
Static COF	0.52	-	ASTM D 3702 Modified
Density	1.38	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.22	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.12 - 0.2	%
Melt Temperature	225 - 240	°C
Front - Zone 3 Temperature	225 - 240	°C
Middle - Zone 2 Temperature	220 - 230	°C
Rear - Zone 1 Temperature	215 - 225	°C
Mold Temperature	70 - 80	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm