LNP™ LUBRICOMP™ Compound JFL34

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound JFL-4034

Product reorder name: JFL34

LNP LUBRICOMP JFL34 is a compound based on Polyethersulfone resin containing 20% Glass Fiber, 15% PTFE. Added feature of this grade is: Wear Resistant.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1060	kgf/cm²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	980	kgf/cm²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.5	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	72100	kgf/cm²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1490	kgf/cm²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1480	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	61300	kgf/cm²	ASTM D 790
Tensile Stress, yield, 5 mm/min	103	MPa	ISO 527
Tensile Stress, break, 5 mm/min	94	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.5	%	ISO 527
Tensile Strain, break, 5 mm/min	2.5	%	ISO 527
Tensile Modulus, 1 mm/min	7030	MPa	ISO 527
Flexural Stress	147	MPa	ISO 178
Flexural Modulus, 2 mm/min	6300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	54	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Multiaxial Impact	30	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	143	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	219	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	212	°C	ASTM D 648
CTE, -30°C to 30°C, flow	3.2E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.1E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	220	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	212	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.61	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.35	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Wear Factor Washer	58	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	7	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.46	-	ASTM D 3702 Modified
Static COF	0.63	-	ASTM D 3702 Modified
Density	1.61	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.52	%	ISO 62

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	355 - 370	°C
Front - Zone 3 Temperature	370 - 380	°C
Middle - Zone 2 Temperature	360 - 370	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	140 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

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