

LNP* Lubricomp* Compound JFL34

Americas: COMMERCIAL

Also known as: LUBRICOMP JFL-4034
Product Reorder Name: JFL34

LNP* JFL34 is a Polyethersulfone base resin containing glass fiber and PTFE. Characteristics are lubricity.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	104	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	97	MPa	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	7070	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	147	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	146	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	6020	MPa	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	538	J/m	ASTM D 4812
Izod Impact, notched, 23°C	73	J/m	ASTM D 256
Multiaxial Impact	3	J	ISO 6603
Instrumented Impact Total Energy, 23°C	14	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
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	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	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/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.52	%	ISO 62

Source GMD, last updated:10/16/2008

Processing

Parameter	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

Source GMD, last updated:10/16/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(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.

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