

LNP* Lubricomp* Compound ZFL34

Americas: COMMERCIAL

LNP* Lubricomp* ZFL34 is a compound based on Modified PPO containing glass fiber and PTFE.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	96	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	96	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.9	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	7210	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	135	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	135	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	6790	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	91	MPa	ISO 527
Tensile Stress, break, 5 mm/min	91	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.8	%	ISO 527
Tensile Strain, break, 5 mm/min	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	6810	MPa	ISO 527
Flexural Stress	136	MPa	ISO 178
Flexural Stress, break, 2 mm/min	136	MPa	ISO 178
Flexural Modulus, 2 mm/min	6430	MPa	ISO 178
МРАСТ	Value	Unit	Standard
zod Impact, unnotched, 23°C	516	J/m	ASTM D 4812
zod Impact, notched, 23°C	99	J/m	ASTM D 256
Multiaxial Impact	2	J	ISO 6603
nstrumented Impact Total Energy, 23°C	12	J	ASTM D 3763
zod Impact, unnotched 80*10*4 +23°C	30	kJ/m²	ISO 180/1U
zod Impact, notched 80*10*4 +23°C	10	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	138	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	133	°C	ASTM D 648
CTE, -30°C to 30°C, flow	6.14E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.56E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	139	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	133	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.32	-	ASTM D 792
Density	1.32	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.06	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955
Nold Shrinkage, xflow, 24 hrs (5)	0.4 - 0.6	%	ASTM D 955
Near Factor Washer	93	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.44	-	ASTM D 3702 Modified
Static COF	0.59	-	ASTM D 3702 Modified

Moisture Absorption (23°C / 50% RH)	0.07	%	ISO 62
		Source	e GMD, last updated:2010/07/16

Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	120	°C
Drying Time	4	hrs
Melt Temperature	300 - 305	°C
Front - Zone 3 Temperature	300 - 310	°C
Middle - Zone 2 Temperature	290 - 300	°C
Rear - Zone 1 Temperature	275 - 290	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:2010/07/16

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.

(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.

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