

**SABIC Innovative Plastics LNP LUBRICOMP ZFL34 PPE+PS**

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

**Material Notes:**

LNP\* LUBRICOMP\* ZFL34 is a compound based on PPE+PS resin containing 20% Glass Fiber, 15% PTFE. Added feature of this grade is:  
Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ZFL34-PPEPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ZFL34-PPEPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Density	1.32 g/cc	0.0477 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0600 %	0.0600 %	50% RH, 24 hrs; ASTM D570
	0.0700 %	0.0700 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	91.0 MPa	13200 psi	5 mm/min; ISO 527
	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	91.0 MPa	13200 psi	5 mm/min; ISO 527
	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.8 %	1.8 %	5 mm/min; ISO 527
	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.81 GPa	988 ksi	1 mm/min; ISO 527
	7.21 GPa	1050 ksi	50 mm/min; ASTM D638
Flexural Strength	135 MPa	19600 psi	1.3 mm/min, 50 mm span; ASTM D790
	136 MPa	19700 psi	ISO 178

Mechanical Properties	Metric 135 MPa	English 19600 psi	Comments 2 mm/min; ISO 178
Flexural Yield Strength	135 MPa	19600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.43 GPa	933 ksi	2 mm/min; ISO 178
	6.79 GPa	985 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.990 J/cm	1.85 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.16 J/cm	9.67 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J @Temperature 23.0 Â°C	8.85 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.44	0.44	ASTM D3702 Modified
Coefficient of Friction, Static	0.59	0.59	ASTM D3702 Modified
K (wear) Factor	187 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	93.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	61.4 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	34.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	45.6 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	25.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	139 Â°C	282 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	138 Â°C @Thickness 3.20 mm	280 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	133 Â°C	271 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	133 Â°C @Thickness 3.20 mm	271 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## **Contact Songhan Plastic Technology Co.,Ltd.**

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