

SABIC Innovative Plastics LNP Lubricomp ZFL34 PPO

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

LNP* Lubricomp* ZFL34 is a compound based on Modified PPO containing glass fiber and PTFE. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-ZFL34-PPO.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D 792
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.070 %	0.070 %	23Â°C / 50% RH; ISO 62
	0.060 %	0.060 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D 955
	@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 D 638
Tensile Strength, Yield	91.0 MPa	13200 psi	5 mm/min; ISO 527
	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.8 %	1.8 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	1.8 %	1.8 %	5 mm/min; ISO 527
	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	6.81 GPa	988 ksi	1 mm/min; ISO 527
	7.21 GPa	1050 ksi	50 mm/min; ASTM D 638
Flexural Strength	135 MPa	19600 psi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
	136 MPa	19700 psi	2 mm/min; ISO 178
Flexural Yield Strength	135 MPa	19600 psi	1.3 mm/min, 50 mm span; ASTM D 790
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 D 790
Izod Impact, Notched	0.990 J/cm @Temperature 23.0 Â°C	1.85 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	5.16 J/cm @Temperature 23.0 Â°C	9.67 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	10.0 kJ/mÂ² @Temperature 23.0 Â°C	4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ² @Temperature 23.0 Â°C	14.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	12.0 J @Temperature 23.0 Â°C	8.85 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.44	0.44	ASTM D 3702 Modified
Coefficient of Friction, Static	0.59	0.59	ASTM D 3702 Modified
K (wear) Factor	187 x 10 ⁻⁸ mmÂ³/N-M	93.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 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 D 696
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 D 696
Deflection Temperature at 0.46 MPa (66 psi)	139 Â°C	282 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
	133 Â°C	271 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
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	271 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648

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