

LNP™ LUBRICOMP™ ZFL34 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

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.

Also known as: LNP* LUBRICOMP* Compound ZFL-4034

Product reorder name: ZFL34

General Information			
UL YellowCard	E121562-101282560		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Water Absorption			
24 hr, 50% RH	0.060	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7210	MPa	ASTM D638
--	6820	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	96.4	MPa	ASTM D638
Yield	91.5	MPa	ISO 527-2/5
Break ³	96.4	MPa	ASTM D638
Break	91.5	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.9	%	ASTM D638
Yield	1.9	%	ISO 527-2/5
Break ⁵	2.7	%	ASTM D638
Break	1.9	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	6790	MPa	ASTM D790
-- ⁷	6440	MPa	ISO 178

Flexural Stress			
--	137	MPa	ISO 178
--	137	MPa	ISO 178
Yield, 50.0 mm Span ⁸	135	MPa	ASTM D790
Break, 50.0 mm Span ⁹	135	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.44		
vs. Itself - Static	0.59		
Wear Factor - Washer	93.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	99	J/m	ASTM D256
23°C ¹⁰	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	520	J/m	ASTM D4812
23°C ¹¹	30	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	12.8	J	ASTM D3763
--	2.94	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	138	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	139	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	133	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	133	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	6.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.6E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	277 to 288	°C	
Middle Temperature	288 to 299	°C	
Front Temperature	299 to 310	°C	
Processing (Melt) Temp	299 to 304	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		

4.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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