

LNP™ LUBRICOMP™ ZFL31XXC compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP ZFL31XXC is a compound based on PPE+PS resin containing 5% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant

Also known as: LNP* LUBRICOMP* Compound ZFL-4031 HP

Product reorder name: ZFL31XXC

General Information			
UL YellowCard	E121562-101282559		
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.21	g/cm ³	
--	1.20	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.50 to 0.70	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.070	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4010	MPa	ASTM D638
--	3640	MPa	ISO 527-2/1
Tensile Strength			
Break ²	60.0	MPa	ASTM D638
Break	60.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	2.9	%	ASTM D638
Yield	2.8	%	ISO 527-2/5
Break ⁴	3.6	%	ASTM D638
Break	3.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	3650	MPa	ASTM D790

-- ⁶	4810	MPa	ISO 178
Flexural Stress			
--	89.0	MPa	ISO 178
Break, 50.0 mm Span ⁷	106	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.40		
vs. Itself - Static	0.27		
Wear Factor - Washer	101	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	80	J/m	ASTM D256
23°C ⁸	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	380	J/m	ASTM D4812
23°C ⁹	24	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	12.0	J	ASTM D3763
--	2.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	136	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	134	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	127	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	127	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	6.6E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.9E-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.	1.3 mm/min
6.	2.0 mm/min
7.	1.3 mm/min
8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

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