

LNP™ LUBRICOMP™ ZP001XXP compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP ZP001XXP is a compound based on PPE+PS resin containing 5% PTFE/Silicone. Added features of this material include: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound ZL-4510

Product reorder name: ZP001XXP

General Information			
Additive	PTFE + Silicone Lubricant (5%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.07	g/cm ³	
--	1.06	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.60 to 0.80	%	
Across Flow : 24 hr	0.80 to 1.0	%	
Water Absorption			
24 hr, 50% RH	0.11	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2400	MPa	ASTM D638
--	2210	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	49.0	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2/5
Break ³	49.0	MPa	ASTM D638
Break	48.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.3	%	ASTM D638
Yield	3.2	%	ISO 527-2/5
Break ⁵	30	%	ASTM D638
Break	31	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2430	MPa	ASTM D790
-- ⁷	2290	MPa	ISO 178

Flexural Stress	73.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.30		
vs. Itself - Static	0.27		
Wear Factor			ASTM D3702 Modified
Ring	0.0500	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	273	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	140	J/m	ASTM D256
23°C ⁸	13	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ⁹	60	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	18.2	J	ASTM D3763
--	6.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	130	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	129	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	118	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	116	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	7.8E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.8E-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.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

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Recommended distributors for this material

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