

LNP™ LUBRICOMP™ ZX07421 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LN:* LUBRICOMP* ZX07421 is a compound based on PPO resin containing proprietary fillers. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound PDX-Z-07421

Product reorder name: ZX07421

General Information			
Filler / Reinforcement	Proprietary		
Features	Good Wear Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.19	g/cm ³	
--	1.20	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.80 to 1.0	%	
Across Flow : 24 hr	0.90 to 2.0	%	
Water Absorption			
24 hr, 50% RH	0.060	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.21	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2500	MPa	ASTM D638
--	2390	MPa	ISO 527-2/1
Tensile Strength			
Break ²	47.0	MPa	ASTM D638
Break	48.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	14	%	ASTM D638
Yield	12	%	ISO 527-2/5
Break ⁴	17	%	ASTM D638
Break	16	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	2540	MPa	ASTM D790
-- ⁶	2350	MPa	ISO 178
Flexural Stress	76.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.28		
vs. Itself - Static	0.35		

Wear Factor			ASTM D3702 Modified
Ring	1.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	72.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	52	J/m	ASTM D256
23°C ⁷	4.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	340	J/m	ASTM D4812
23°C ⁸	25	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	13.6	J	ASTM D3763
--	2.66	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 ⁹	127	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	117	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	114	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	7.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.9E-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.	5.0 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.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		

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