

LNP™ LUBRICOMP™ OX96668 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP OX96668 is a compound based on Linear PPS resin containing Proprietary Filler(s). Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound PDX-O-96668

Product reorder name: OX96668

General Information			
Filler / Reinforcement	Proprietary		
Features	Good Wear Resistance		
	Linear Polymer Structure		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13600	MPa	ASTM D638
--	13000	MPa	ISO 527-2/1
Tensile Strength			
Break ²	131	MPa	ASTM D638
Break	129	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.6	%	ASTM D638
Break	1.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	11800	MPa	ASTM D790
-- ⁵	12200	MPa	ISO 178
Flexural Stress			
--	188	MPa	ISO 178
Break, 50.0 mm Span ⁶	189	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.45		
vs. Itself - Static	0.72		

Wear Factor			ASTM D3702 Modified
Ring	8.70	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	80.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	91	J/m	ASTM D256
23°C ⁷	8.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	510	J/m	ASTM D4812
23°C ⁸	32	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	12.1	J	ASTM D3763
--	3.92	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	277	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	274	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	260	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	249	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.2E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Rear Temperature	304 to 316	°C	
Middle Temperature	321 to 332	°C	
Front Temperature	332 to 343	°C	
Processing (Melt) Temp	316 to 321	°C	
Mold Temperature	138 to 166	°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.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		

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