

LNP™ LUBRICOMP™ OX97635 compound

Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* OX97635 is a compound based on Polyphenylene Sulfide resin containing Proprietary Filler(s). Added features of this material include: Electrically Conductive, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound PDX-O-97635

Product reorder name: OX97635

General Information			
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
	Good Wear Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.44	%	ISO 294-4
Flow : 24 hr	0.060	%	ISO 294-4
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	23000	MPa	ASTM D638
--	26200	MPa	ISO 527-2/1
Tensile Strength			
Break	121	MPa	ASTM D638
Break	165	MPa	ISO 527-2
Tensile Elongation (Break)	0.80	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	24500	MPa	ASTM D790
--	25900	MPa	ISO 178
Flexural Strength			
--	253	MPa	ASTM D790
--	260	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.36		

vs. Itself - Static	0.32		
Wear Factor - Washer	47.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C ²	5.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	400	J/m	ASTM D4812
23°C ³	24	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	4.50	J	ASTM D3763
--	2.19	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	269	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	265	°C	ISO 75-2/Af
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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