

LNP™ LUBRICOMP™ JX91198 compound

Polyethersulfone

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* JX91198 is a compound based on Polyethersulfone resin containing Proprietary Filler(s). Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound PDX-J-91198

Product reorder name: JX91198

General Information			
Filler / Reinforcement	Proprietary		
Features	Good Wear Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.41	%	ISO 294-4
Flow : 24 hr	0.17	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.41	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.53	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10100	MPa	ASTM D638
--	9200	MPa	ISO 527-2/1
Tensile Strength			
Break	117	MPa	ASTM D638
Break	112	MPa	ISO 527-2
Tensile Elongation			
Break	1.9	%	ASTM D638
Break	1.8	%	ISO 527-2
Flexural Modulus			
--	8830	MPa	ASTM D790
--	9240	MPa	ISO 178
Flexural Strength			
--	169	MPa	ASTM D790
--	161	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.43		

vs. Itself - Static	0.34		
Wear Factor - Washer	4.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ²	7.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	330	J/m	ASTM D4812
23°C ³	27	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	4.20	J	ASTM D3763
--	2.36	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	211	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	228	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	343 to 354	°C	
Middle Temperature	360 to 371	°C	
Front Temperature	371 to 382	°C	
Processing (Melt) Temp	354 to 371	°C	
Mold Temperature	138 to 149	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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