

LNP™ LUBRICOMP™ LX91475 compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP LUBRICOMP LX91475 is a compound based on Polyetheretherketone resin containing proprietary fillers. Added features of this material include: Easy Molding, High Temperature Bearing Grade, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound LTW

Product reorder name: LX91475

General Information			
UL YellowCard	E121562-101284445		
Filler / Reinforcement	Proprietary		
Features	Good Moldability		
	Good Wear Resistance		
	High Heat Resistance		
Uses	Bearings		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.43	g/cm ³	
--	1.40	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.60	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.051	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12400	MPa	ASTM D638
--	11900	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	161	MPa	ASTM D638
Break ³	159	MPa	ASTM D638
Break	160	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁴	2.1	%	ASTM D638
Break	2.1	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	10300	MPa	ASTM D790

-- ⁶	10300	MPa	ISO 178
Flexural Stress			
--	229	MPa	ISO 178
Break, 50.0 mm Span ⁷	239	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.34		
vs. Itself - Static	0.42		
Wear Factor			ASTM D3702 Modified
Ring	2.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	16.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	58	J/m	ASTM D256
23°C ⁸	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	480	J/m	ASTM D4812
23°C ⁹	30	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.00	J	ASTM D3763
--	2.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	336	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	335	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	322	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	335	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.8E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.2E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	370 to 380	°C	
Middle Temperature	380 to 400	°C	
Front Temperature	380 to 400	°C	
Mold Temperature	175 to 190	°C	
Back Pressure	0.300 to 0.700	MPa	
Screw Speed	60 to 100	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.	1.3 mm/min
8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

