

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: High Temperature Bearing Grade, Internally lubricated.
Also known as: LNP* LUBRICOMP* Compound LTW
Product reorder name: LX91475

General Information			
Filler / Reinforcement	Proprietary packing		
Features	Heat resistance, high Lubrication		
Uses	Bearing		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 - 0.20	%	Internal method
Water Absorption (23°C, 24 hr)	0.090	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11800	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	148	MPa	ISO 527-2/5
Fracture	148	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	2.8	%	ISO 527-2/5
Fracture	2.9	%	ISO 527-2/5
Flexural Modulus ¹	9700	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	210	MPa	ISO 178
-- ⁴	211	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.28		ASTM D3702 Modified
Flexural Strain at Break ⁵	3.3	%	ISO 178
Wear Factor - Washer	10.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁶ (23°C)	8.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			

0.45 MPa, unannealed, 64.0mm span	> 300	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	> 300	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	4.4E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	4.8E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (0.700 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	370 - 380	°C	
Middle Temperature	380 - 400	°C	
Front Temperature	380 - 400	°C	
Mold Temperature	175 - 190	°C	
Back Pressure	0.300 - 0.700	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	Break		
4.	Yield		
5.	2 mm/min		
6.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		

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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

