

LNP™ LUBRICOMP™ LX92134 compound

Polyetheretherketone

SABIC Innovative Plastics Europe

Message:

LNP* LUBRICOMP* LX92134 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 PDX-L-92134
Product reorder name: LX92134

General Information			
Filler / Reinforcement	Proprietary		
Additive	Lubricant		
Features	High Heat Resistance		
	Lubricated		
Uses	Bearings		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.0 to 1.4	%	Internal Method
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3700	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	73.0	MPa	
Break	72.0	MPa	
Tensile Strain			ISO 527-2/5
Yield	4.7	%	
Break	6.8	%	
Flexural Modulus ¹	3600	MPa	ISO 178
Flexural Stress	118	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.37		ASTM D3702 Modified
Flexural Strain at Break ²	6.3	%	ISO 178
Wear Factor - Washer	41.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³ (23°C)	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	45	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, Unannealed, 64.0 mm Span	201	°C	ISO 75-2/Bf

1.8 MPa, Unannealed, 64.0 mm Span	152	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	5.1E-5	cm/cm/°C	
Transverse : 23 to 60°C	6.0E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	349 to 360	°C	
Middle Temperature	366 to 377	°C	
Front Temperature	382 to 393	°C	
Processing (Melt) Temp	382 to 388	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	2.0 mm/min		
2.	2 mm/min		
3.	80*10*4		
4.	80*10*4		
5.	80*10*4 mm		

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