

LNP™ LUBRICOMP™ JCL36E compound

Polyethersulfone

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* JCL36E is a compound based on Polyethersulfone (PES) resin containing 30% Carbon Fiber, 15% PTFE. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound JCL-4036

Product reorder name: JCL36E

General Information			
UL YellowCard	E121562-101344697		
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.55	g/cm³	
--	1.54	g/cm³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.010 to 0.030	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	26900	MPa	ASTM D638
--	26300	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	142	MPa	ASTM D638
Yield	145	MPa	ISO 527-2/5
Break ³	142	MPa	ASTM D638
Break	145	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	0.59	%	ASTM D638
Yield	0.57	%	ISO 527-2/5
Break ⁵	0.59	%	ASTM D638
Break	0.58	%	ISO 527-2/5

Flexural Modulus			
50.0 mm Span ⁶	23400	MPa	ASTM D790
-- ⁷	22900	MPa	ISO 178
Flexural Stress			
--	213	MPa	ISO 178
Yield, 50.0 mm Span ⁸	199	MPa	ASTM D790
Break, 50.0 mm Span ⁹	198	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.34		
vs. Itself - Static	0.36		
Wear Factor - Washer	25.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ¹⁰	6.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	320	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	5.30	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	279	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	280	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	270	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	270	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.3E-5	cm/cm/°C	
Transverse : -30 to 30°C	2.7E-5	cm/cm/°C	
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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		

4.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4 mm
12.	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

