

LNP™ LUBRICOMP™ DFL34 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DFL34 is a compound based on Polycarbonate resin containing 20% Glass Fiber, 15% PTFE. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound DFL-4034

Product reorder name: DFL34

General Information			
UL YellowCard	E121562-101344537		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.40	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	0.30 to 0.60	%	ASTM D955
Across Flow : 24 hr	0.30 to 0.50	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.11	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6870	MPa	ASTM D638
--	6510	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	97.0	MPa	ASTM D638
Yield	2.90	MPa	ISO 527-2/5
Yield	94.0	MPa	ISO 527-2/50
Break ³	95.9	MPa	ASTM D638
Break	89.6	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.9	%	ASTM D638
Yield	2.9	%	ISO 527-2/5
Break ⁵	3.3	%	ASTM D638
Break	3.5	%	ISO 527-2/5

Flexural Modulus			
50.0 mm Span ⁶	4910	MPa	ASTM D790
-- ⁷	6020	MPa	ISO 178
Flexural Strength			
--	143	MPa	ASTM D790
--	153	MPa	ISO 178
Yield, 50.0 mm Span ⁸	144	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.52		
vs. Itself - Static	0.67		
Wear Factor - Washer	76.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	170	J/m	ASTM D256
23°C ⁹	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	780	J/m	ASTM D4812
23°C ¹⁰	48	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	22.5	J	ASTM D3763
--	7.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	147	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	147	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	143	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	144	°C	ISO 75-2/af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	2.8E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.6E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	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.	80*10*4
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

