

LNP™ LUBRICOMP™ DFL36ELH compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DFL36ELH is a compound based on Polycarbonate resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant, Low Extractable, Easy Molding, Healthcare.

Also known as: LNP* LUBRICOMP* Compound DFL-4036 EM LE HC

Product reorder name: DFL36ELH

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Moldability		
	Good Wear Resistance		
	Low Extractables		
	Lubricated		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.60 to 0.80	%	ASTM D955
Across Flow : 24 hr	0.71	%	ISO 294-4
Flow : 24 hr	0.21	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9650	MPa	ASTM D638
--	9280	MPa	ISO 527-2/1
Tensile Strength			
Yield	114	MPa	ASTM D638, ISO 527-2
Break	112	MPa	ASTM D638
Break	113	MPa	ISO 527-2
Tensile Elongation			
Yield	2.4	%	ASTM D638
Yield	2.5	%	ISO 527-2
Break	2.5	%	ASTM D638
Break	2.7	%	ISO 527-2
Flexural Modulus			
--	8960	MPa	ASTM D790

--	8700	MPa	ISO 178
Flexural Strength			
--	179	MPa	ASTM D790
--	180	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.58		
vs. Itself - Static	0.50		
Wear Factor - Washer	27.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	180	J/m	ASTM D256
23°C ²	17	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	850	J/m	ASTM D4812
23°C ³	52	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	21.8	J	ASTM D3763
--	7.00	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 ⁴	149	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	143	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	144	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	3.0E-5	cm/cm/°C	ISO 11359-2
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.	80*10*4		

3.	80*10*4
4.	80*10*4 mm
5.	80*10*4 mm

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