

LNP™ LUBRICOMP™ DEL36P compound

Polycarbonate

SABIC Innovative Plastics Europe

Message:

LNP* LUBRICOMP* DEL36P is a compound based on Polycarbonate resin containing 30% Carbon Fiber, 15% PTFE. Added features include: Internally Lubricated, Exceptional Processing.

Also known as: LNP* LUBRICOMP* Compound DCL-4036 EP

Product reorder name: DEL36P

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Processability		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 to 0.30	%	Internal Method
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	22100	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	148	MPa	
Break	148	MPa	
Tensile Strain			ISO 527-2/5
Yield	1.3	%	
Break	1.5	%	
Flexural Modulus ¹	15400	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	179	MPa	
-- ⁴	177	MPa	
Coefficient of Friction (vs. Itself - Dynamic)	0.55		ASTM D3702 Modified
Flexural Strain at Break ⁵	1.5	%	ISO 178
Wear Factor - Washer	9.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	20	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			

0.45 MPa, Unannealed, 64.0 mm Span	136	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	130	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.6E-5	cm/cm/°C	
Transverse : 23 to 60°C	5.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
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.	2.0 mm/min		
2.	2.0 mm/min		
3.	Yield		
4.	Break		
5.	2 mm/min		
6.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		

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