

LNP™ LUBRICOMP™ DCL32 compound

Polycarbonate

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP DCL32 is a compound based on Polycarbonate resin containing Carbon Fiber, PTFE. Added features include; Internally Lubricated, Electrically Conductive.

Also known as: LNP* LUBRICOMP* Compound DCL-4032

Product reorder name: DCL32

General Information			
UL YellowCard	E45329-101343781		
Filler / Reinforcement	Carbon Fiber		
Additive	PTFE Lubricant		
Features	Electrically Conductive		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20	%	Internal Method
Water Absorption (23°C, 24 hr)	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2/1
Tensile Stress (Break)	107	MPa	ISO 527-2/5
Tensile Strain (Break)	1.9	%	ISO 527-2/5
Flexural Modulus ¹	6900	MPa	ISO 178
Flexural Stress	151	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	8.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	25	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	142	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	8.2E-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. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 80*10*4 mm |

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