

LNP™ LUBRICOMP™ DCP32 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DCP32 is a compound based on Polycarbonate resin containing 15% PTFE/Silicone, 10% Carbon Fiber. Added features of this material include: Electrically Conductive, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound DCL-4532

Product reorder name: DCP32

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Electrically Conductive		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.30 to 0.50	%	ASTM D955
Across Flow : 24 hr	0.40 to 0.60	%	ASTM D955
Across Flow : 24 hr	0.54	%	ISO 294-4
Flow : 24 hr	0.43	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7580	MPa	ASTM D638
--	7470	MPa	ISO 527-2/1
Tensile Strength			
Yield	91.7	MPa	ASTM D638
Yield	93.0	MPa	ISO 527-2
Break	91.7	MPa	ASTM D638
Break	93.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.1	%	ASTM D638
Yield	2.2	%	ISO 527-2
Break	2.1	%	ASTM D638
Break	2.2	%	ISO 527-2
Flexural Modulus			
--	6210	MPa	ASTM D790

--	6700	MPa	ISO 178
Flexural Strength			
--	138	MPa	ASTM D790
--	142	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.36		
vs. Itself - Static	0.37		
Wear Factor - Washer	49.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	91	J/m	ASTM D256
23°C ²	9.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	440	J/m	ASTM D4812
23°C ³	29	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	18.6	J	ASTM D3763
--	5.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	148	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	148	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	144	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	144	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	4.1E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.3E-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.	80*10*4		
3.	80*10*4		

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

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Recommended distributors for this material

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