

Product Texts

LNP LUBRICOMP DCI06APW compound is based on Polycarbonate (PC) resin containing 30% carbon fiber and silicone. Added features of this grade include: Electrically Conductive, High Flow, Wear Resistant. Healthcare, Biocompatible (ISO10993).

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Density of melt	1200	kg/m ³	-
Thermal conductivity of melt	0.35	W/(m K)	-
Spec. heat capacity of melt	1720	J/(kg K)	-
Ejection temperature	120	°C	-
ASTM Data			
Mold Shrinkage, MD	0.1	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.275	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	23800	MPa	ISO 527
Stress at break	183	MPa	ISO 527
Strain at break	1.6	%	ISO 527
Flexural modulus	20600	MPa	ISO 178
Flexural strength	262	MPa	ISO 178
Izod impact strength, +23°C, 4mm	33	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	25440	MPa	ASTM D 638
Tensile Strength at Break	183	MPa	ASTM D 638
Elongation at Break	1.4	%	ASTM D 638
Flexural Modulus	20100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	94	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	504	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	130	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	26	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	50	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	9.7	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	46.1	E-6/K	ASTM D 696
DTUL @ 264 psi	128	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.11	%	ASTM D 570
Density	1300	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	290 - 300	°C	-
Mold temperature	100 - 120	°C	-
Zone 1	270 - 285	°C	-
Zone 2	275 - 290	°C	-
Zone 3	285 - 300	°C	-

LNP™ LUBRICOMP™ Compound DCI06APW

PC-CF30

Saudi Basic Industries Corporation (SABIC)

Screw speed	40 - 80	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity