

Data Sheet

Diamond Like Carbon (DLC) Diamonex DLC

Description

Superhard, conformal and low friction coating of amorphous carbon with diamond-like bonds.

Prime Features:

- Wear/abrasion resistant
- Low Friction
- High surface hardness
- Corrosion resistance
- Conformal coatings
- Biocompatible

Certifications:

- ISO 9001:2000
- ISO 14001:2004
- AS9100C

Physical Properties:

Hardness	8 – 35 GPa
Coefficient of Friction	<0.1
Coating thickness	0.005 – 30um
Diamonex DLC (Max Working Temp in Air)	350°C - 450°C
Deposition Temperature	< 150 °C
Chemical resistance	Inert
Electrical resistivity	$10^6 - 10^{12}$ ohm*cm
Surface finish	Identical to substrate

Note: Values listed are based on test pieces and may vary according to component design. These values are not guaranteed in anyway whatsoever and should only be treated as indicative and for guidance only.

Typical Markets:

- Aerospace
- Electronics
- Industrial
- Medical/Dental
- Optics
- Semiconductor
- Transportation

Production Capabilities:

- Coatings for metals, ceramics, plastics, glass
- Flat and 3 dimensional part processing capability
- RF and Ion Beam direct deposition(PECVD)
- Prototype, batch and volume production

