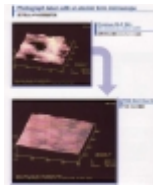


## ASIA E-cots Pte Ltd

*Asia Ecots*

# TDK DLC ( Diamond Like Coating Technology) Thin Films

Price per Unit (piece): [Call for Pricing](#)



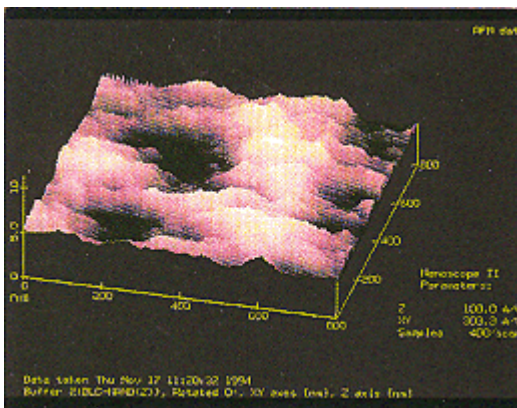
**Increase the life span of extremely expensive product or when super hardness is required!!**

### **TDK Diamond-Like Carbon (DLC) Thin Films**

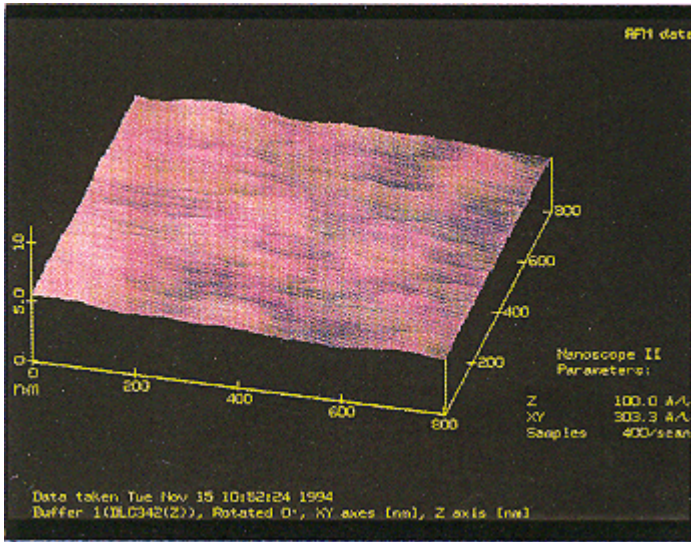
TDK diamond-like carbon (DLC) thin films feature extremely smooth film surfaces, defect-free film without any pin holes, and strong adhesion to the base surface, achieved through film-forming devices specially developed by TDK.

The film formation processing take place at room temperature, so base material selection is not limited as with previous films.

[Photograph taken with an atomic form microscope](#)

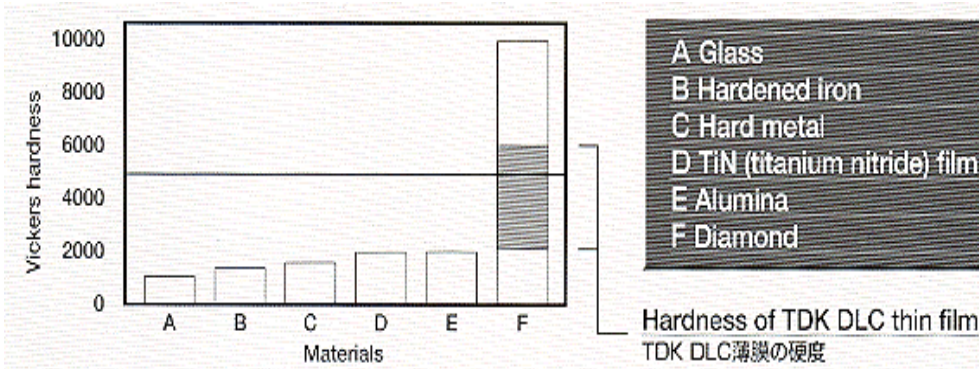


Previous DLC Film  
(Film formed on a silicon wafer)



TDK DLC Thin Film

Comparison of Vickers Hardness



## **TDK DLC coating can improve**

Lubrication Protection and wear and tear life span Preventing static electricity Enhance hardness level to Diamond like hardness Make product more durable Possible to make film formation also on internal surfaces and hidden or difficult to reach corners Prevent two individually coated items from sticking together

### **Main Attributes**

Film thickness:	50ú ~ 50,000ú angstrom (range of film formation control)
Vickers hardness:	1,000 ~ 6,000 (hardness may change depending on conditions)
Coefficient of friction:	$\mu=0.1 \sim 0.2$
Insulation properties:	DLC films are insulative when processed by standard manufacturing processes
Non-reactivity:	Acid, alkali, salts, metals, and other materials are non-reactive
Optical transmission:	Transparent in infrared wavelengths; can transmit to visible range if thin
Refractive control:	Index of refraction can be controlled from 1.6 to 2.2

### **Vendor Information**

**Customer Reviews:** There are yet no reviews for this product.  
Please log in to write a review.