

**Diamond-like Carbon (DLC) Self-Supporting Foil, Nominal Size 110x140 (mm), Thickness: 2000 nm, Approx. Areal Density: 400 µg/cm<sup>2</sup>**

|                 |                                   |
|-----------------|-----------------------------------|
| Art. ID         | MI-DLC-46-2000-S                  |
| Unit            | each                              |
| Deliverydetails | No Dangerous Good /not restricted |

Description

The properties of these unique carbon foils makes them useful in a variety of applications: Beam strippers Particle accelerator targets, X-ray and extreme UV filters // MICROMATTER™ DLC foils consist of homogeneously distributed carbon nano-particles, which gives them outstanding physical properties. DLC shows high electrical resistivity, remarkable hardness, and good thermal conductivity. In addition, DLC's mechanical strength makes the foils easier to handle and users are reporting that DLC foils are proving to be a superior choice in a number of applications // Diamond-like carbon can be produced by laser plasma ablation deposition. An intense laser beam is used to evaporate carbon from a sputter target. In the process, the graphitic structure of the source material is converted into nano-particles, which deposit on prepared substrates as diamond-like carbon.