

EDP was established as the venture company from AIST (National Institute of Industrial Science and Technology) in order to realize the technologies developed by Diamond research center (DRC).

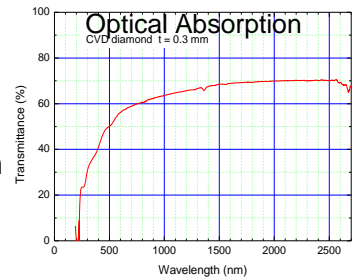
- Diamond single crystal grown by CVD method with very large growth rate
- Process of lifting off from seed diamond
- Growing the different direction of (001) resulted large diamond crystals.

Feature

- Supplying planer crystal which are pure and high crystallinity.
- Up to 10mm square plate can be achieved.
- Laser cutting for your required shape, square, triangle, round etc.
- Our standard crystal is one side smooth, which is the lifted off surface, but you may offer both side polished.

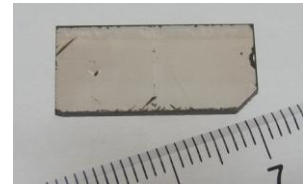
Characteristics

- FWHM of X-ray rocking curve is in 7 to 50 arcsec.
- Type of diamond looks between IIa and Ib.
- N-V center is shown in CL spectra.



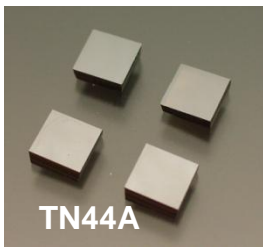
Material

Planner single crystals are fabricated by using of lift off method. Regular size of mono-crystal is 10x10mm and mosaic crystal 20x10mm.



Material for Wear Resistant applications

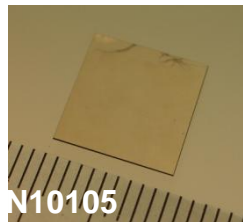
Cutting inserts for precise cutting, dresser, die etc.



Typical Size (mm)	Product No.
3x3x1.0	TN33A
4x4x1.0	TN44A
4x4x1.2	TN44B
4x4x1.5	TN44C
5x5x1.0	TN55A
7x7x1.0	TN77A
10x10x1.0	TN1010A

Substrate for device research or optical use

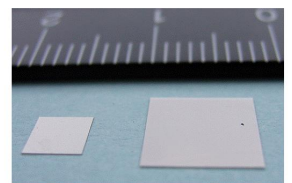
Large plate with 10x10mm is the suitable for device research. Colorless crystal .



Typical Size (mm)	Product No.
5x5x0.3	RN553
5x5x0.5	RN555
7x7x0.3	RN773
10x10x0.3	RN10103
10x10x0.5	RN10105

Ultra thin plate

Thinner plate than 50µm can be fabricated. No other method can make such thin diamond.



40 and 50 µm plate waiting for novel idea of application!