

# Track Analysis Systems Ltd

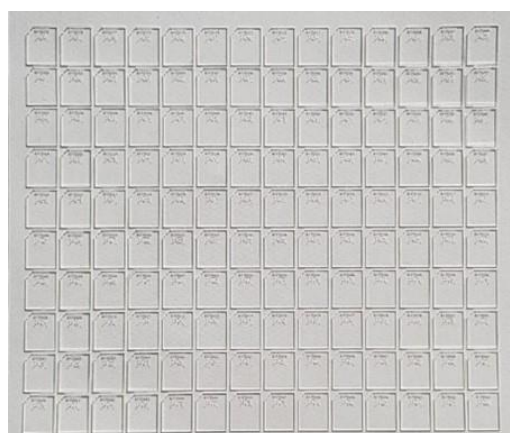
## TASTRAK™ (PADC) Dosimetry Grade Nuclear Track-Detecting Plastic

In radon detection & neutron dosimetry, nuclear & medical science and technology\*

**TASTRAK**, a form of *polyallyl diglycol carbonate* (PADC), is a clear, stable plastic which is sensitive to the tracks of energetic protons,  $\alpha$ -particles, heavier nuclei and fast ions. After exposure, the tracks may be revealed by etching the material in solutions such as caustic alkalis.



**TASTRAK** is supplied as whole sheets or cut and scribed to order. We will be pleased to supply customised cut and engraved plastic in any, size, shape and quantity.



**TASTRAK** is specifically optimised for nuclear track detection. The plastic is manufactured to high standards and can also be used for optical windows and other specialist applications.

Scribed features include rectangular boxes, circles, incrementing numbers, dot codes, titles and drilled holes - please contact us for a quotation. Each batch of plastic is tested for background and  $\alpha$ -particle response, ensuring the highest standard of dosimetry grade plastic.

### TASTRAK - Available thicknesses

- 1.5 mm
- 1.0 mm
- 0.75 mm
- 0.50 mm

### Specialist thicknesses

- 100 - 500 micron
- Greater than 1.5 mm

Also available: boron impregnated **TASTRAK** for thermal neutron dosimetry via the  $^{10}\text{B}(n,\alpha)^7\text{Li}$  reaction.

We also offer **TASLImage™**, a complete analysis system for **TASTRAK** or any track-detecting plastic. The **TASLImage** system is designed for both easy use in routine neutron and radon dosimetry and as a flexible research analysis system. Please contact us for further details.

\***TASTRAK** detectors are used for radon detection, fast & thermal neutron dosimetry, proton beam therapy, neutron-capture therapy, and a wide range of research applications including laser-plasma fusion diagnostics, cosmic-ray & space-science physics, environmental radioactivity and for the teaching of radioactivity in schools.

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