

GEL-PAK® SUBSTRATE CARRIERS & PACKAGING

Innovative Solutions for Storing and Transporting Delicate Devices

The Gel-Box, Gel-Tray and Gel-Slide product series are designed to protect and store sensitive devices and specimens during transport, processing, inspection and assembly. Devices can be loaded and removed easily using tweezers or by hand from the unique highly cross-linked Gel polymer. The degree of holding force of the Gel is depending on the tackiness of the Gel material, which is called Retention Level. The Gel material is strong in both shear and vertical directions, but weak in the peel direction, which allows parts to be easily unloaded from the Gel surface. Gel is an extremely durable and versatile material that maintains its properties between -40°C to 220°C. Minimum shelf life is 2 years.

Applications for Semiconductor devices, Sensors, Micromechanical Devices, Optoelectronics, Hard Drive heads, Bio-medical devices, Specimen storage.

Retention levels available are X0, X4 and X8. The optimum tack level for individual parts depends on material, size, weight and surface roughness. Unfortunately there is no exact formula to calculate the retention level but general guidelines are:

- Low retention level - X0 - for highly polished surfaces
- Medium retention level - X4 - for pre-polished and/or etched surfaces
- High retention level - X8 - for rough surfaces like ceramics

Gel-Pak has devised an effective box system with offers a versatile selection of box materials optimized for the diverse range of applications:

- C - Conductive black polycarbonate (optimum protection against static discharges)
- AS - Clear Anti-Static plastic (optimum visibility)
- CAS - Clear Anti-Static top with conductive plastic bottom (optimum for ESD safe protection and visibility)
- T - Clear Styrene Box for non ESD sensitive parts (most economical solution)

The Gel-Pak products are available as:

- Gel-Box with the material in the base of the box
- Gel-Tray with a removable 2" x 2" carrier tray
- Gel-Slide with a 2" x 2" glass slide



GEL-BOX (AD SERIES)

The original and widely used Gel-Box is a plastic hinged box with the Gel material coated in the bottom. Standard box sizes range from 1" x 1" to 3-1/2" x 4-1/2".



GEL-TRAY (BD SERIES)

The Gel-Trays are configured as a 2" x 2" carrier tray stored in a protective hinged box which can be easily removed for access or transfer. Maximum temperature for the trays is in the range of 70-80°C. The trays are available in either conductive black polycarbonate (C) or clear styrene (T). Retention levels available are X0, X4 and X8. The boxes are available in a variety of materials. Useable area is 1.5" x 1.5" (38.1 x 38.1mm) with a clearance of 0.065" (1.65mm).



GEL-SLIDE (CD SERIES)

The Gel-Slides are 2" x 2" glass slide carriers stored in a protective plastic hinged box. The advantage is the glass slide can be used up to temperatures of 220°C. Retention level available is X4. Boxes are available in clear plastic (T) and anti-static clear plastic (AS). Useable area is 1.94" x 1.94" (49.3 x 49.3mm) with a clearance of 0.215" (5.45mm).

See reverse side for complete ordering information.

 **TED PELLA, INC.**
Microscopy Products for Science and Industry

www.tedpella.com sales@tedpella.com 800-237-3526

GEL-PAK® SUBSTRATE CARRIERS & PACKAGING

Ordering Information

Clear Plastic Hinged Boxes with Gel Coating in Bottom (AD Series)

AD-11T-00-X0	Gel-Box, 25.4 x 5.4 x 6.4mm (1" x 1" x 1/4"), Clear Plastic hinged box, Gel X0.....	pkg/50
AD-11T-00-X4	Gel-Box, 25.4 x 5.4 x 6.4mm (1" x 1" x 1/4"), Clear Plastic hinged box, Gel X4.....	pkg/50
AD-11T-00-X8	Gel-Box, 25.4 x 5.4 x 6.4mm (1" x 1" x 1/4"), Clear Plastic hinged box, Gel X8.....	pkg/50
AD-22T-00-X0	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear Plastic hinged box, Gel X0.....	pkg/50
AD-22T-00-X4	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear Plastic hinged box, Gel X4.....	pkg/50
AD-22T-00-X8	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear Plastic hinged box, Gel X8.....	pkg/50
AD-23T-00-X4	Gel-Box, 50.8 x 76.2 x 9.5mm (2" x 3" x 3/8"), Clear Plastic hinged box, Gel X4.....	pkg/50
AD-23T-00-X0	Gel-Box, 50.8 x 76.2 x 9.5mm (2" x 3" x 3/8"), Clear Plastic hinged box, Gel X0.....	pkg/50
AD-23T-00-X8	Gel-Box, 50.8 x 76.2 x 9.5mm (2" x 3" x 3/8"), Clear Plastic hinged box, Gel X8.....	pkg/50
AD-1135T-00-X4	Gel-Box, 89 x 114 x 12.7mm (3-1/2" x 4-1/2" x 1/2"), Clear Plastic hinged box, Gel X4.....	pkg/50

Black Conductive Plastic Hinged Boxes with Gel Coating in Bottom (AD Series)

AD-23C-00-X4	Gel-Box, 50.8 x 76.2 x 9.5mm (2" x 3" x 3/8"), Black Conductive Plastic hinged box, Gel X4.....	pkg/50
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Black Plastic, Conductive Hinged Boxes (AD Series)

AD-22C-00-X0	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Black Conductive hinged box, Gel X0.....	pkg/50
AD-22C-00-X4	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Black Conductive hinged box, Gel X4.....	pkg/50
AD-22C-00-X8	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Black Conductive hinged box, Gel X8.....	pkg/50

Black Conductive Plastic Base / Anti-Static Plastic Top, Hinged Boxes (AD Series)

AD-22CAS-00-X0	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Black Conductive base / Anti-Static top, hinged box, Gel X0.....	pkg/50
AD-22CAS-00-X4	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Black Conductive base / Anti-Static top, hinged box, Gel X4.....	pkg/50
AD-22CAS-00-X8	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Black Conductive base / Anti-Static top, hinged box, Gel X8.....	pkg/50

Anti-Static, Clear Plastic, Hinged Boxes (AD Series)

AD-22AS-00-X0	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Anti-Static, Clear plastic hinged box, Gel X0, pkg/50
AD-22AS-00-X4	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Anti-Static, Clear plastic hinged box, Gel X4, pkg/50
AD-22AS-00-X8	Gel-Box, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Anti-Static, Clear plastic hinged box, Gel X8, pkg/50

Gel-Trays (BD Series)

BD-22TT-020-X0	Gel-Tray, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear plastic hinged box, Clear plastic tray, Gel X0.....	pkg/50
BD-22TT-020-X4	Gel-Tray, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear plastic hinged box, Clear plastic tray, Gel X4.....	pkg/50
BD-22TT-020-X8	Gel-Tray, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear plastic hinged box, Clear plastic tray, Gel X8.....	pkg/50
BD-22CC-020-X0	Gel-Tray, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Black Conductive hinged box, Black Conductive tray, Gel X0.....	pkg/50
BD-22CC-020-X4	Gel-Tray, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Black Conductive hinged box, Black Conductive tray, Gel X4.....	pkg/50
BD-22CC-020-X8	Gel-Tray, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Black Conductive hinged box, Black Conductive tray, Gel X8.....	pkg/50
BD-22CAS-020-X0	Gel-Tray, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear Anti-Static hinged box, Black Conductive tray, Gel X0.....	pkg/50
BD-22CAS-020-X4	Gel-Tray, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear Anti-Static hinged box, Black Conductive tray, Gel X4.....	pkg/50
BD-22CAS-020-X8	Gel-Tray, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear Anti-Static hinged box, Black Conductive tray, Gel X8.....	pkg/50

Gel-Slide (CD Series)

CD-22T-02-X0	Gel-Slide, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear plastic hinged box, Gel X0.....	pkg/50
CD-22T-02-X4	Gel-Slide, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear plastic hinged box, Gel X4.....	pkg/50
CD-22T-02-X8	Gel-Slide, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Clear plastic hinged box, Gel X8.....	pkg/50
CD-22AS-02-X0	Gel-Slide, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Anti-Static Clear hinged box, Gel X0.....	pkg/50
CD-22AS-02-X4	Gel-Slide, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Anti-Static Clear hinged box, Gel X4.....	pkg/50
CD-22AS-02-X8	Gel-Slide, 50.8 x 50.8 x 6.4mm (2" x 2" x 1/4"), Anti-Static Clear hinged box, Gel X8.....	pkg/50