

# Adhesive Sealing

**BIOKÉ**  
sharing knowledge

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4titude® offers a wide range of adhesive sealing materials. All seals are certified free from nucleases and human genomic DNA contamination.



## PCR Seal



- **Description**

A strong transparent adhesive seal recommended for PCR. Suitable for fluorescence applications. Non-sterile. Non-pierceable. Peelable.

- **Seal integrity range**

-20°C to 110°C

- **Application**

PCR

Code	Pack Size/Dimensions
<b>4ti-0500</b>	100 Sheets (135mm x 80mm)
<b>4ti-0501</b>	1 roll (100m x 80mm)

**NEW**

See also  
Adhesive Seal Roller  
on Page 34



## Q-Stick™ for qPCR

\* Not available in USA



- **Description**

Strong adhesive properties. Discrete optical windows for 96well plates. Non-sterile. Non-pierceable. Peelable.

- **Seal integrity range**

-20°C to 110°C

- **Application**

qPCR, fluorescence applications. For 96well microplates only.

Code	Pack Size/Dimensions
<b>4ti-0565</b>	100 sheets (135mm x 80mm)

## qPCR Seal



- **Description**

Optically clear film recommended for qPCR and other fluorescence applications. Non-sterile. Non-pierceable. Peelable.

- **Seal integrity range**

-40°C to 110°C

- **Application**

qPCR (96 or 384well)

Code	Pack Size/Dimensions
<b>4ti-0560</b>	100 sheets (135mm x 80mm)
<b>4ti-0561</b>	1 roll (100m x 80mm)

**NEW**

## PCR Foil Seal



- **Description**

Pierceable and peelable foil seal. When pierced the irregular manner in which the foil tears prevents the formation of a vacuum. Non-sterile. Pierceable. Peelable.

- **Seal integrity range**

-40°C to 120°C

- **Application**

PCR and sample storage.

Code	Pack Size/Dimensions
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<b>4ti-0550</b>	100 Sheets (135mm x 80mm)
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<b>NEW</b> 4ti-0551	1 Roll (200m x 80mm)
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## Pierceable Film\*

\* Not available in USA



- **Description**

This has the same adhesion properties as 4ti-0500 with cross-cut, clear windows for sample retrieval with a tip or probe. The lack of adhesive under the cross cut section reduces the risk of the tip or probe getting clogged. Non-sterile. Peelable.

- **Seal integrity range**

-20°C to 110°C

- **Application**

Sample application or retrieval in 96well plates (auto samplers, HPLC, DNA sequencers).

Code	Pack Size/Dimensions
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<b>4ti-0566</b>	100 sheets (135mm x 80mm)
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<b>NEW</b> 4ti-0567	1 Roll (100m x 80mm, 700 sheets)
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See also  
Adhesive Seal Roller  
on Page 34



## Gas Permeable Seal



- **Description**

An adhesive microplate seal that is permeable to gases but providing a barrier to bacteria and other solid contaminants. Pierceable. Peelable.

- **Seal integrity range**

-20°C to 80°C

- **Application**

Eukaryotic cell culture, bacterial culture.

Code	Pack Size/Dimensions
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<b>4ti-0515</b>	50 Sheets (135mm x 80mm)
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<b>NEW</b> 4ti-0515/ST	50 Sheets (5 packs of 10 sheets, 135mm x 80mm), sterile
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<b>NEW</b> 4ti-0515/R	1 Roll (100m x 80mm)
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# Adhesive Sealing

## Gas Permeable Moisture Barrier Seal

NEW



- **Description**

This unique gas permeable adhesive seal allows uniform air and CO<sub>2</sub> exchange, but prevents evaporation. **Sterile.** Peelable.

- **Seal integrity range**

-20°C to 80°C

- **Application**

Eukaryotic cell culture, bacterial culture, long-term live cell assays

Code	Pack Size/Dimensions
4ti-0516/96	50 Sheets (5 packs of 10 sheets, 135mm x 80mm), sterile. 96 round-well only
4ti-0516/384	50 Sheets (5 packs of 10 sheets, 135mm x 80mm), sterile. 384 square-well only

## Peelable Solvent Resistant Foil



- **Description**

Peelable barrier film with a very high level of solvent resistance. Non-sterile. Non-Pierceable.

- **Seal integrity range**

-20°C to 80°C

- **Application**

Sealing microplates containing solvents including DMSO.

Code	Pack Size/Dimensions
4ti-0512	100 Sheets (122mm x 80mm)

See also  
Adhesive Seal Roller  
on Page 34



## Microplate Seal



- **Description**

A medium strength transparent adhesive seal. Non-sterile. Non-Pierceable. Peelable

- **Seal integrity range**

-20°C to 80°C

- **Application**







Sample storage (aqueous).

Code	Pack Size/Dimensions
4ti-0510	100 sheets (135mm x 80mm)
4ti-0510/R	1 Roll (110m x 80mm)

NEW

# Adhesive Sealing Films & Foils Comparison Table

## Adhesive Sealing Films & Foils

Product Application	PCR Seal	Q-Stick™ for qPCR	qPCR Seal	PCR Foil Seal	Pierceable Film	Gas Permeable Seal	Peelable Solvent Resistant Foil	Gas Permeable Moisture Barrier Seal	Microplate Seal
<b>Product</b>	PCR	qPCR, fluorescence, 96well PCR plates only	qPCR & other fluorescent applications	PCR & sample storage	Sample application or retrieval, 96well plates only	Cell & bacterial culture	Microplate sealing containing solvents incl. DMSO	Eukaryotic cell & bacterial culture and long term live cell assays	Aqueous sample storage
<b>Application</b>									
<b>Special Properties</b>	Good optical clarity	Discrete optical windows for 96well plates	Good optical clarity	Irregular tearing when pierced prevents formation of vacuum	Pre-cut with cross which reduces tip or probe becoming clogged	Gas permeable providing barrier to bacteria & other solid contaminants	High solvent resistance	Gas permeable, but provides barrier to moisture exchange.	Medium strength transparent seal
<b>Min Temp</b>	-20°C	-20°C	-20°C	-40°C	-20°C	-20°C	-20°C	-20°C	-20°C
<b>Max Temp</b>	110°C	110°C	110°C	120°C	110°C	80°C	80°C	80°C	80°C
<b>Sterile?</b>									
<b>Pierceable</b>									
<b>Peelable</b>									
<b>RNase/DNase free</b>									
<b>Measurements (mm)*</b>	Total = 137 Adhesive = 117 (no tear strips)	Adhesive = 119 (inside tear strips)	Adhesive = 116 (inside tear strips)	Adhesive = 118 (plus 2 x 8 mm tabs)	Total = 134, Adhesive = 113 (no tear strips)	Adhesive = 118 (plus 2 x 8 mm tabs)	Adhesive = 122	118mm (plus 2 x 8mm tabs)	Total = 131 (no tear strips)
<b>Product Codes (100 Sheets)</b>	41i-0500	41i-0565	41i-0560	41i-0550	41i-0566	41i-0515	41i-0512	41i-0516*	41i-0510

All Adhesive Sealing Films & Foils have width of 80mm  
\* Pack of 50 sheets