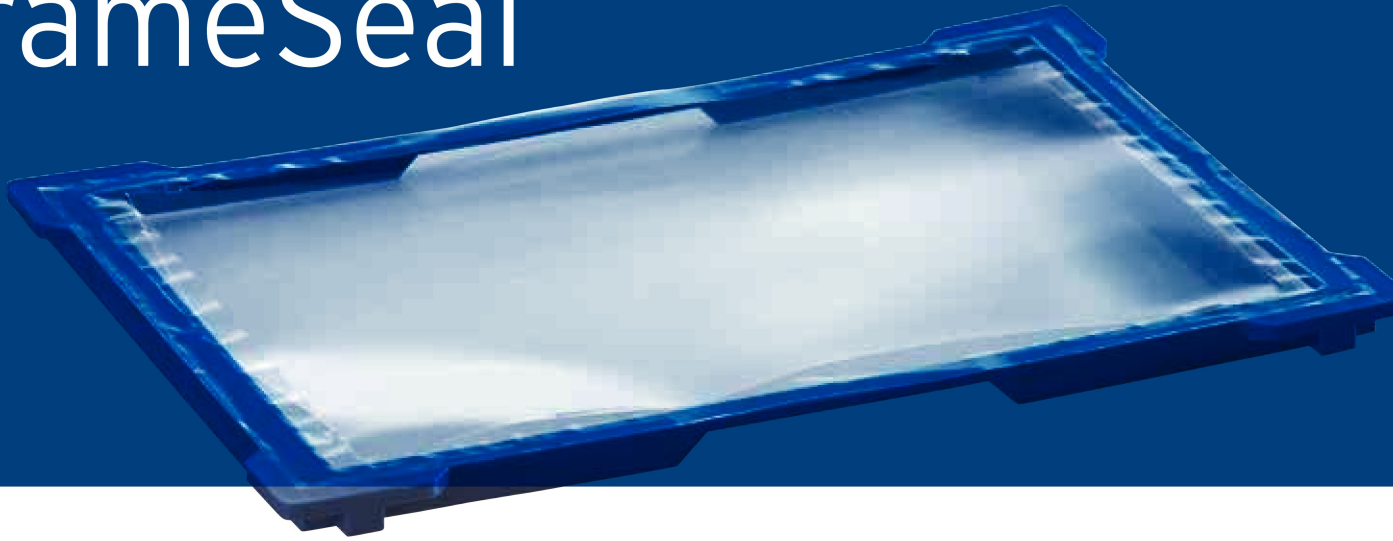


NEW

FrameSeal™



Frame Seal™ utilises a sheet of standard 4titude® heat seal material mounted onto a disposable, rigid, plastic frame. A FrameSeal™ can be placed either manually or with a robotic gripper onto a wide range of skirted and semi-skirted microplates including PCR plates and are compatible with the 4S3 heat sealer. After sealing, there is the option to remove the frame by tearing along pre-cut lines leaving the heat seal in place on the plate surface.

Code	Description	Qty
4ti-0575/FS	Clear Weld Seal Mk II FrameSeal™, stackable heat seal frames	50
4ti-0541/FS	ClearSeal FrameSeal™	50
4ti-0531/FS	Pierce Seal FrameSeal™	50

COMING SOON
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Application example:

Our Clear Weld Seal Mk II (4ti-0575) heat sealing film is now available pre-mounted to create a FrameSeal. Together with Fraunhofer IPA Institute FrameSeal™ has been used in a fully integrated solution for sealing 1536well PCR plates before analysis of RNAi screening with a Roche Lightcycler1536.

Using a robotic arm, a single FrameSeal™ is placed onto a 1536well PCR plate. By adjusting the position of the robot gripper, the plate and FrameSeal™ combination are then transferred to the draw of a 4S3 Heat Sealer which seals the part via a software command through its RS232 port.

After the sealing process has been carried out, the sealed plate is transferred to the De-Framer, which separates the frame from the film at each point along the edge of the film. The frame can then be removed leaving the sealed plate to be placed in the cyclor.

Together the heat sealer and the FrameSeal™ presented here are:

- The most cost effective automated heat sealing solution available
- An approach in line with demands of diagnostics for a sterile, single-use consumable
- The most compact instrument for integration

Key advantages

- Key advantages compared to sheets of sealing film or roll material, are the ease of handling and the ability to sterilise and improve the quality control of every single seal.
- The FrameSeal™ also enables the use of sheeted sealing material in automation.



4s3™ shown next to the De-Framer



Automation cell, showing the 4LAB™, 4s3™ and De-Framer fully integrated