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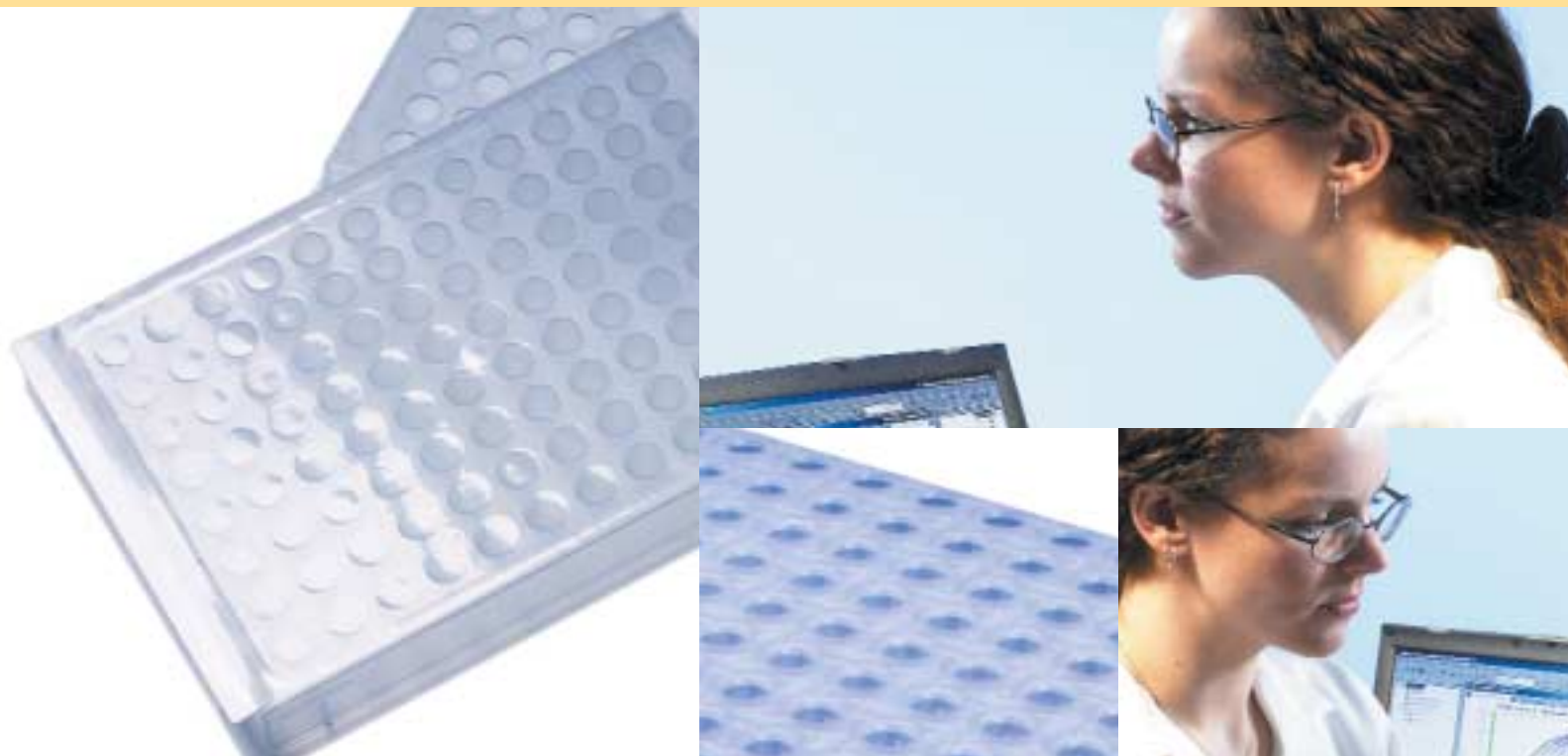
PCR Plasticware

To ensure optimal performance of our thermal cyclers, we recommend the use of Thermo plasticware, which has been performance tested as part of our ongoing product development programme. All Thermo plasticware is manufactured under clean room conditions, giving you confidence in your data as the product is supplied DNase and RNase free.

96 Well Microplates

Thermo supplies 96 well plates made of polycarbonate or polypropylene.

Polycarbonate plates are a cost effective alternative to polypropylene. If very small sample volumes are used we recommend the use of polypropylene plates as they are impermeable to water and sample loss is minimised. Unlike polycarbonate plates, the surface of polypropylene is smooth and inert so that enzymes are not bound to polypropylene and PCR products can be recovered easily.



Polycarbonate vs Polypropylene Plates

Traditionally polycarbonate plates have been vacuum formed; a technique which, whilst producing plates that are adequate for many applications, has many limitations. Variable well wall thickness is key amongst these, as it can lead to inconsistency of results across a plate. In addition, the combination of thin walls and the porosity of the polycarbonate, which can lead to sample loss, means that starting sample volumes of less than 25µl are not recommended.

The sealing of microtitre PCR plates is also a very important issue for many users. Whilst the most effective sealing may be achieved by the use of heat sealing or caps, they are not necessarily the most favored option as adhesive tapes offer the flexibility many users require. Polycarbonate is supremely suited for use with adhesive tapes due to the nature of the material.

PCRs of very small volumes are still better suited to polypropylene plates. Polypropylene is non-porous and will not bind enzymes to its surface, making it ideal for small volume PCR. Thermo offers a range of polypropylene plates to suit practically every researcher's requirements. For oil free cycling we supply the high performance TDX Tape. Please see the following paragraphs for more details of these items.

Polypropylene	Polycarbonate
Precision injected-moulded wall	Vacuum formed
Gives high plate uniformity and an even distribution of material – which improves cycle time	May result in well-to-well inconsistencies
Impermeable to water vapour	Moisture loss
Repeated cycling will not result in decreases in volume	Can lead to volume decrease in reaction mixture due to variations on wall thickness. Reaction volume >25ul
Robot compatibility Yes if skirted	Robot compatibility Not skirted therefore limited compatibility
Sealing properties	Sealing properties
Heat sealing	Can not be heat sealed
Binding properties	Binding properties
No enzyme binding occurs making them ideal for very low samples	Low

Polypropylene Microplates **OmniFast 96**

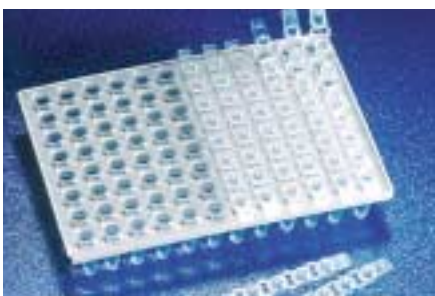


The OmniFast 96 is a skirted version of the OmniTube 96 plate, designed for use in 0.2ml thermal cycling blocks. (The skirt reduces the plate's profile to minimize the dead space between

heated lid and samples.) It's supportive skirt aids compatibility with automated systems and provides extra space for labeling.

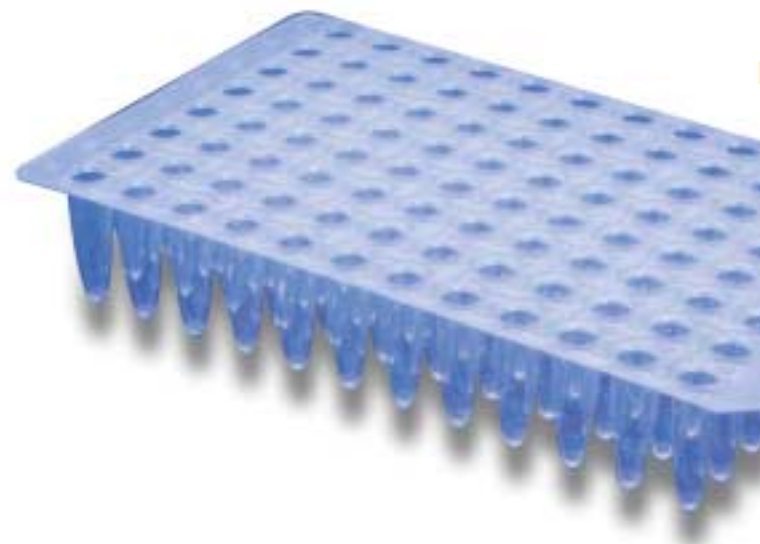
Racked OmniTube 96

Racked OmniTube 96 has been designed for use in 96 well 0.5ml blocks. The product is based on our 0.3ml polypropylene tubes.



OmniTube 96

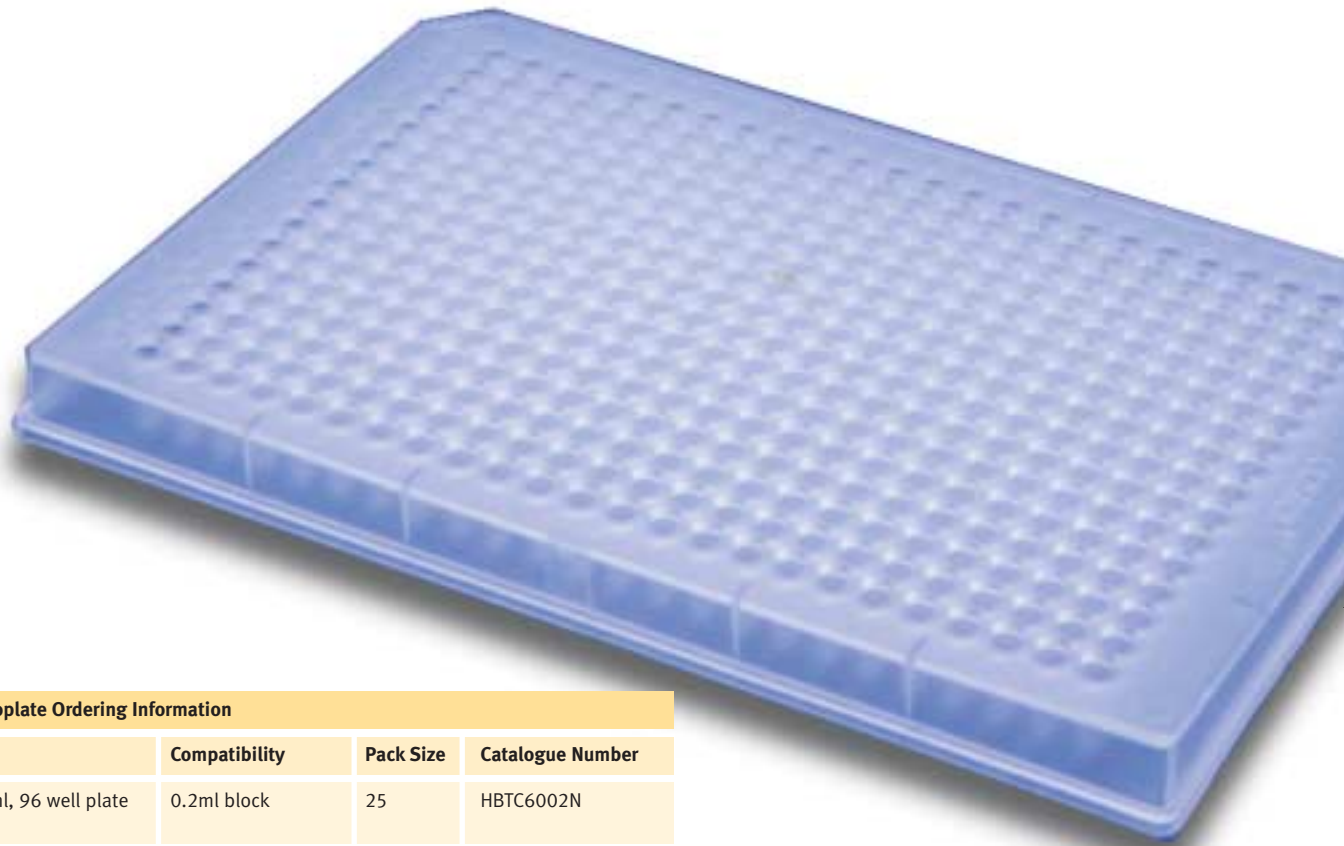
OmniTube 96 is designed for use in 96 well 0.2ml thermal cycling blocks.



OmniFast 384

OmniFast 384 is the polypropylene 384 well plate to compliment the 384 well block options of Thermo's instruments. Designed for high throughput laboratories, the performance of this 384 well plate is unparalleled. Each of the wells has a total capacity of 40µl and a working volume of 25µl.

All the above polypropylene plates can be sealed tightly using TDX Tape which allows for oil free operation. Alternatively, the 96 well plates can be sealed with the OmniTube strip caps.



Polypropylene Microplate Ordering Information			
Description	Compatibility	Pack Size	Catalogue Number
OmniTube 96 - 0.2ml, 96 well plate (caps not included)	0.2ml block	25	HBTC6002N
OmniFast 96 - skirted 0.2ml, 96 well plate (caps not included)	0.2ml block	25	HBTC8002N
Racked OmniTube 96 plates - 96 x 0.3ml tubes (caps not included)	0.5ml block	25	HBTC4073N
OmniFast 384 - 384 well plate	384 well block	50	HBTC3840N
OmniTube strip caps	96 well Polypropylene plates	25 x 96	HBTC6022N
TDX Tape - sealing sheets for polypropylene plates	only Polypropylene plates	100	HBDXTAPE100



TDX Tape



TDX Tape is a unique single use sealing system for oil free thermal cycling in 96 well and 384 well plates which prevents cross contamination between wells. After a thermal reaction TDX Tape can be removed from the plate with ease.

TDX Tape is designed for use with polypropylene plates such as the OmniTube 96 or OmniFast 96.

TDX Tape cannot be used with Polycarbonate as the TDX Tape will bind irreversibly. To ensure optimum contact with the heated lid of the thermal cycler, TDX Tape must be used in combination with the reusable TD Compression Pad.

Disposable Sealing System Ordering Information

Description	Compatibility	Pack Size	Catalogue Number
TDX Tape - sealing sheets for polypropylene plates only	Polypropylene plates	100	HBTDXTAPE100
TD Silicone foam compression pad	All plates	1	HBTDSDOAM

Polypropylene Tubes and Strips of Tubes



Many thermal cycler users don't use a full 96 well block on every run and so use separate tubes. However, the performance of your PCR can be significantly reduced by poor tube design. Thermo supplies a range of tubes, both single and in strips, to which you can entrust your valuable samples.

The OmniTubes are available as 0.2ml or 0.5ml thin walled single tubes with flat or domed caps. OmniStrips are strips of 8 thin wall tubes complete with strips of domed caps. They are available in 0.2ml and 0.3ml strips, with the 0.3ml strips fitting the 0.5ml blocks.

Microtubes Ordering Information

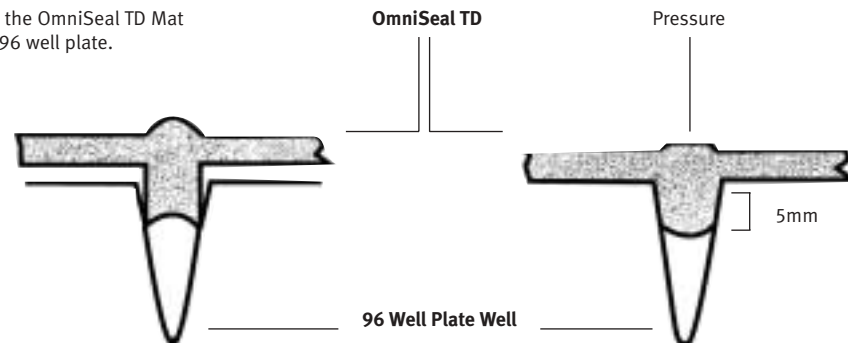
Description	Compatibility	Pack Size	Catalogue Number
OmniTube - 0.2ml individual tubes with integral flat caps	0.2ml block	1000	HBTC6202N
OmniTube - 0.2ml individual tubes with integral domed caps	0.2ml block	1000	HBTC3372N
OmniTube - 0.5ml individual tubes with integral flat caps	0.5ml block	1000	HBTC3505N
OmniTube - 0.5ml individual tubes with integral domed caps	0.5ml block	1000	HBTC4895N
OmniStrip - 0.2ml strips of 8 tubes & caps	0.2ml block	2000	tubes HBTC2662N
OmniStrip - 0.3ml strips of 8 tubes & caps	0.5ml block	2000	tubes HBTC4043N
OmniTube caps	OmniStrip	25 x 96	HBTC6022N

OmniSeal TD Mat

The OmniSeal TD Mat is used to seal 96 well plates when using the Heated Lid option. OmniSeal TD Mats have plugs in the underside, that are spaced to fit into wells of a 96 well plate. The plugs are shaped to expand sideways, sealing all wells of a 96 well plate when sufficient pressure is exerted by the heated lid to the upper surface of the mat.

The OmniSeal TD Mat can be re-used and can withstand autoclaving.

Figure showing how the OmniSeal TD Mat seals the wells of a 96 well plate.



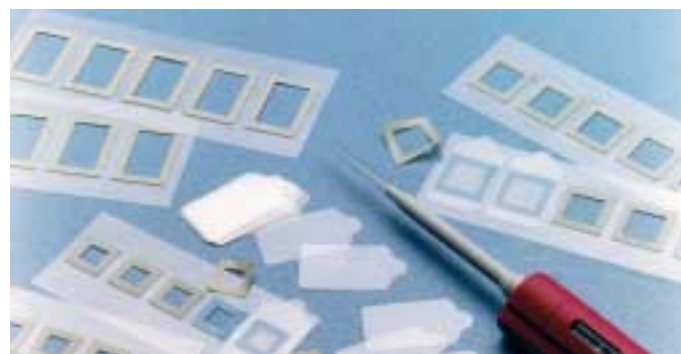
OmniSeal TD Mat Ordering Information

Product	Catalogue Number
OmniSeal TD Mat All 96 well plates 5	HBTDMTSRS5

In Situ Plasticware EasiSeal

To prevent evaporation of reagents during *in situ* PCR and *in situ* hybridisation, Thermo supplies EasiSeal. These adhesive backed frames are simply fastened on to the slide over the sample area. The PCR or hybridisation mix is added to the sample and the flexible

plastic "coverslip" placed over the top making a gas tight seal. After cycling/incubation the entire chamber is removed by simply peeling it from the slide. EasiSeal is available in four sizes for 25µl, 65µl, 125µl and 300µl sample volumes.



EasiSeal Ordering Information

Description	Pack Size	Catalogue Number
EasiSeal - Trial Kit 5 medium	5 large	HBOSTPSSEZ
EasiSeal - Starter Kit 10 small	10 medium, 10 large	HBOSSSEZM
EasiSeal - Economy Pack	100 small	HBOSSSEZ1E
EasiSeal - Economy Pack	100 medium	HBOSSSEZ2E
EasiSeal - Economy Pack	100 large	HBOSSSEZ3E
EasiSeal - Economy Pack	100 extra large	HBOSSSEZ4E



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