

ThermalSeal® Transparent Sealing Films for PCR and Storage

ThermalSeal® films consist, unless otherwise noted, of 50 µm thick sheets of transparent polymer – polyolefin, polyester, or polypropylene depending on the specific film – with adhesive formulations optimized for specific PCR applications. They are non-pierceable, but easier to apply than AlumaSeal films because they have no tendency to roll back when peeled from their backing sheets. The exceptionally high optical clarity of ThermalSeal RTS and RT films provides superior performance for real-time qPCR applications.

- heat resistant
- non-pierceable
- all have two end tabs
- all certified DNase-, RNase-, and nucleic-acid-free
- easily applied to plates, no rollback tendency

ThermalSeal RTS™ Films for RT qPCR, Protein Crystallization, and Storage

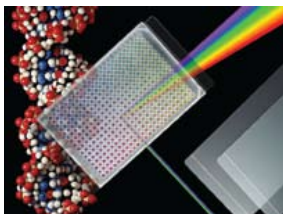
New!



New ThermalSeal RTS™ films are based on patented 3M® 9795 50 µm polyolefin with 50 µm inert encapsulated silicone adhesive. They are optically clear with low autofluorescence. The adhesive is non-tacky until pressed on the plate to form the strongest available heat-resistant seal around each well. Adhesive over sample wells remains encapsulated and inert. ThermalSeal RTS films fit within the edges of raised-rim plates. The non-tacky adhesive surface simplifies handling. Dimensions 76.2 by 133.4 mm. With end tabs removed, length is 113.0 mm. Recommended for temperatures from -70 °C to +100 °C.

Catalog No.	Description
TSS-RTQ-100	ThermalSeal RTS, Pkg of 100, Non-Sterile

ThermalSeal RT™ Films for Real-Time qPCR and Crystallization

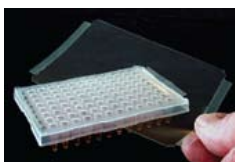


ThermalSeal RT™ films combine optically transparent polyester with a strong, ultra-smooth, non-absorbing, non-fluorescing medical-grade adhesive for superior performance in real-time qPCR applications. A plastic liner, easily removed before use, contributes smoothness and extreme optical clarity to the adhesive. Dimensions 79.4 by 142.9 mm for sealing PCR plates. Length between the perforations with end tabs removed is 121.9 mm. Temperatures from -40 °C to +120 °C. The ultra-high clarity of ThermalSeal RT films has also made them useful for protein crystallization studies.

- “brilliant” optical clarity
- 125 µm film: more rigid, less tendency to wrinkle if frozen

Catalog No.	Description
TS-RT2-100	ThermalSeal RT2, 50 µm Films, Pkg of 100
TS-RT5-100	ThermalSeal RT5, 125 µm Films, Pkg of 100 (see note above)

ThermalSeal RT2RR™ Films for Raised-Rim Plates



The same consistent ultra-high optical clarity as ThermalSeal RT™ films for more reproducible, reliable, and consistent qPCR measurements. Inert, strong, temperature-resistant adhesive assures reliable sealing around each well. End tabs easily removable at perforated boundaries prevent lifting and higher evaporation rates that can occur when films overlap the plate rim. Dimensions 77.8 by 130.8 mm. With end tabs removed, length is 118.1 mm with 45° corners.

Catalog No.	Description
TS-RT2RR-100	ThermalSeal RT2RR, 50 µm Films, Pkg of 100

Classic ThermalSeal® Films



Polypropylene films for thermal cycling. (Not recommended for PCR plates with narrow or irregular sealing surfaces: AlumaSeal, ThermalSeal A, or ThermalSeal RT series films are better in such instances.) Each film measures 79.4 x 135.1 mm and offers sufficient sealing area for all PCR plates. Length between the perforations with end tabs removed is 123.1 mm. Recommended for temperatures from -40 °C to +120 °C. MiniStrips seal just one or two 8-well rows at a time.

Catalog No.	Description
100-THER-PLT	ThermalSeal, Pkg of 100, Non-Sterile
STR-THER-PLT	ThermalSeal, Pkg of 100, Sterile
TS-2x8-50	ThermalSeal MiniStrips, Pkg of 200 in 4 zip bags of 50, Non-Sterile

ThermalSeal A™ Films for Raised-Rim Plates



An advanced version of classic ThermalSeal® polypropylene films with a much stronger and thicker adhesive layer. ThermalSeal A™ films fit raised-rim plates and provide more secure sealing of all wells because the center of the film does not extend over the plate rim. Each film measures 77.8 x 135.5 mm overall. Length with end tabs removed is 118.1 mm. Recommended temperatures: -40 °C to +125 °C. One sealing paddle for ensuring a firm seal on raised-rim plates is included in each package.

Catalog No.	Description
TSA-100	ThermalSeal A, Pkg of 100, Non-Sterile



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