| AZENTA LIFE SCIENCES | THERMAL BOND HEAT SEAL | SEV-0029<br>REVISION C<br>16 MAR 2023 |
|---|---|---|

| Parameter | Specification | | |
|---|---|---|---|
| Description | Heavy-duty heat-sealing foil, peelable; suitable for long term storage, transportation. | | |
| Composition | Thick foil / co-polymer laminates that seals to PP to give a very strong peelable seal. High degree of sample protection. Good solvent resistance, including DMSO. | | |
| Seal Type | Heat. | | |
| Ordering Information | 4ti-0590 | 500 m x 78 mm roll<br>Compatible with Azenta Automated Roll Heat Sealer, Thermo Fisher ALPS 300™ / ALPS 3000™ / KBiosystems Wasp™, KBioscience FlexiSeal and Cube. | |
| | 4ti-0590/100 | 100 m x 78 mm roll<br>Compatible with Azenta Automated Roll Heat Sealer with optional dust cover. | |
| | 4ti-0592 | 300 m x 115 mm roll<br>NOT compatible with Agilent (Velocity 11) PlateLoc® | |
| | 4ti-0591 | 100 sheets (125 mm x 78 mm) | |
| Application | Long term storage, including storage and transportation at low temperature.<br>PCR, especially water bath cyclers.<br>Storage of organic solvents, acids and alkaline. | | |
| Certification | Free from human genomic DNA, nucleases, and pyrogens. | | |
| Storage Conditions | Room temperature (10-27 °C). Avoid direct exposure to light and high humidity. | | |
| Material Safety Data | Non-hazardous | | |
| Schematic Overview | Outward surface ⬆<br>Sealing surface ⬇  Aluminium 60µm<br>Polypropylene 25g/m² | | |
| Seal Integrity Range | -200 °C to 110 °C. | | |
| Sealing Parameters^ | 96-well PCR Plate | 170-180 °C, 2-3 seconds | |
| | 384-well PCR Plate | 160-170 °C, 2 seconds | |
| | Vision Plate™ | | |
| | Aluminium Foil: | Thickness:<br>Base:<br>Tolerance: | 60 µm<br>Alloy 98.8% (A8079)<br>±8% |
| | Protective Laquer: | Thickness:<br>Base:<br>Grammage: Tolerance: | N/A<br>Acrylic resins 1.5g/m²<br>±0.4% |

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| | Extrusion Coating: | Base:<br>Grammage:<br>Tolerance: | PP<br>25.0g/m$^2$<br>±10% |
| | Total Weight: | | 189 g/m$^2$ |

*^These are recommended sealing conditions with the Azenta Semi-Automatic Sheet Heat Sealer.*

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