

### TT8402 Optiscan® 2C Thermal Transfer

Revised: 07/2019 CNS

| Description       | Applications and End Uses                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                    |                            |  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|
| <b>Product</b>    | TT8402 is a premium thermal transfer paper construction with an ultra removable adhesive and a 2.4 semi-bleached super calendared kraft liner. Demonstrates long term, clean removability across a wide variety of substrates. | Applications include thermal transfer printed point of sale promotions, information processing, work-in-process labels, pricing and promotion on mirrors, house wares, office supplies, software, automotive products, toys, crafts, lawn and garden products etc. |                            |  |
| <b>Face</b>       | A premium bright white, coated facestock designed for high-speed thermal transfer printing. This smooth, smudge resistant face offers great thermal transfer printing and excellent flexo printing.                            |                                                                                                                                                                                                                                                                    |                            |  |
|                   | <b>Physical Properties Without Adhesive</b>                                                                                                                                                                                    |                                                                                                                                                                                                                                                                    |                            |  |
|                   | Caliper, inches                                                                                                                                                                                                                | 0.0029 +/- 10%                                                                                                                                                                                                                                                     | TAPPI T-411                |  |
|                   | Brightness % Reflectance at 75° angle                                                                                                                                                                                          | 87                                                                                                                                                                                                                                                                 | TAPPI T-452                |  |
|                   | Opacity                                                                                                                                                                                                                        | 87                                                                                                                                                                                                                                                                 | TAPPI T-425                |  |
|                   | Stiffness                                                                                                                                                                                                                      | 150 MD 100 CD                                                                                                                                                                                                                                                      | TAPPI T-543                |  |
|                   | Tear, grams                                                                                                                                                                                                                    | 40 MD 50 CD                                                                                                                                                                                                                                                        | TAPPI T-414                |  |
|                   | Tensile, lbs./in.                                                                                                                                                                                                              | 28 MD 17 CD                                                                                                                                                                                                                                                        | TAPPI T-494                |  |
| <b>Adhesive</b>   | MR840 is an ultra-removable acrylic emulsion adhesive characterized by low ultimate adhesion to most substrates. Not recommended for curved surfaces or Corrugated. Testing is highly recommended.                             |                                                                                                                                                                                                                                                                    |                            |  |
|                   | <b>Physical Properties of Adhesive</b>                                                                                                                                                                                         |                                                                                                                                                                                                                                                                    |                            |  |
|                   | Thickness, inches                                                                                                                                                                                                              | 0.0007 +/- 10%                                                                                                                                                                                                                                                     |                            |  |
|                   | Peel Adhesion, lbs./in.                                                                                                                                                                                                        | Stainless Steel: .22<br>Glass: .2<br>HDPE: .31<br>PVC: .35                                                                                                                                                                                                         | PSTC-101F (7 days applied) |  |
|                   | Temperature Ranges                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                    |                            |  |
|                   | Minimum Application                                                                                                                                                                                                            | +25° F (-4°C) on most surfaces                                                                                                                                                                                                                                     | CTM #45 Curwood            |  |
|                   | Service Ranges                                                                                                                                                                                                                 | -40 to +200° F (-40 to +93°C)                                                                                                                                                                                                                                      | Polyester Film Dry Surface |  |
| <b>Liner</b>      | A semi-bleached super calendared kraft liner excellent for die cutting, stripping and label dispensing. Primarily for roll-to-roll applications.                                                                               |                                                                                                                                                                                                                                                                    |                            |  |
|                   | Caliper, inches                                                                                                                                                                                                                | 0.0024 +/- 10%                                                                                                                                                                                                                                                     | TAPPI T-411                |  |
|                   | Basis Weight, lbs. (24" x 36"/500 sheets)                                                                                                                                                                                      | 40 +/- 10%                                                                                                                                                                                                                                                         | TAPPI T-410                |  |
| <b>Shelf Life</b> | One year when stored at 72° F and 50% R.H.                                                                                                                                                                                     |                                                                                                                                                                                                                                                                    |                            |  |

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**Note:** The user is responsible for determining the product's suitability for all aspects of the application. If there are any questions about applications, or regulatory compliances, please contact your MACTac sales representative to discuss your requirements for recommendations. If this is a printed Performance Guide, it is an uncontrolled document. Please check the MACTac website for the latest, most-up-to-date version.

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