

www.mactac.com

**TL9600-52**

Revised: 04/2023 KSM

### Durascan® L Thermal Transfer Film

Description	Applications and End Uses																				
<b>Product</b>	<p>TL9601 is a matte white thermal transfer printable polypropylene with a quick tack permanent adhesive and a 2.4 semi-bleached super calendared kraft liner.</p> <p>Thermal transfer labels requiring durability and an extremely aggressive permanent adhesive. Recommended for short outdoor durability labeling, parts and inventory labels and anywhere a strong, durable label is needed. Especially good on rough and porous surfaces.</p>																				
<b>Face</b>	<p>A 3.0 mil thermal transfer printable, opaque matte white, biaxially oriented, coated polypropylene.</p> <p><b>Physical Properties Without Adhesive</b></p> <table border="1"> <tr> <td>Caliper, inches</td> <td>0.0028</td> <td>ASTM D-2103</td> </tr> <tr> <td>Tensile @ Break, lbs./in.</td> <td>34 MD 72 CD</td> <td>ASTM D-882</td> </tr> <tr> <td>Elongation, %</td> <td>150 MD</td> <td>ASTM D-882</td> </tr> <tr> <td>Opacity, %</td> <td>94</td> <td>TAPPI 425</td> </tr> </table>			Caliper, inches	0.0028	ASTM D-2103	Tensile @ Break, lbs./in.	34 MD 72 CD	ASTM D-882	Elongation, %	150 MD	ASTM D-882	Opacity, %	94	TAPPI 425						
Caliper, inches	0.0028	ASTM D-2103																			
Tensile @ Break, lbs./in.	34 MD 72 CD	ASTM D-882																			
Elongation, %	150 MD	ASTM D-882																			
Opacity, %	94	TAPPI 425																			
<b>Adhesive</b>	<p>XT100 is a permanent ultra high tack acrylic adhesive designed for special applications requiring greater tack than standard adhesives. Especially good on rough and porous surfaces.</p> <p><b>Physical Properties of Adhesive</b></p> <table border="1"> <tr> <td>Thickness, inches</td> <td>0.0013 +/- 10%</td> <td></td> </tr> <tr> <td>Peel Adhesion, lbs./in.</td> <td>Corrugate: 2.65 HDPE: 3.9 Stainless Steel: 4.4</td> <td>PSTC-101A (30 min. applied)</td> </tr> <tr> <td>Loop Tack, lbs./in.</td> <td>3.9</td> <td>PSTC-16</td> </tr> <tr> <td>Temperature Ranges</td> <td></td> <td></td> </tr> <tr> <td>Minimum Application</td> <td>+32°F (0°C)</td> <td></td> </tr> <tr> <td>Service Ranges</td> <td>-75°F to +200°F (-59°C to +93°C)</td> <td></td> </tr> </table>			Thickness, inches	0.0013 +/- 10%		Peel Adhesion, lbs./in.	Corrugate: 2.65 HDPE: 3.9 Stainless Steel: 4.4	PSTC-101A (30 min. applied)	Loop Tack, lbs./in.	3.9	PSTC-16	Temperature Ranges			Minimum Application	+32°F (0°C)		Service Ranges	-75°F to +200°F (-59°C to +93°C)	
Thickness, inches	0.0013 +/- 10%																				
Peel Adhesion, lbs./in.	Corrugate: 2.65 HDPE: 3.9 Stainless Steel: 4.4	PSTC-101A (30 min. applied)																			
Loop Tack, lbs./in.	3.9	PSTC-16																			
Temperature Ranges																					
Minimum Application	+32°F (0°C)																				
Service Ranges	-75°F to +200°F (-59°C to +93°C)																				
<b>Liner</b>	<p>A semi-bleached super calendar kraft liner excellent for die cutting, stripping and label dispensing. Primarily for roll -to -roll applications.</p> <table border="1"> <tr> <td>Caliper, inches</td> <td>0.0024 +/- 10%</td> <td>TAPPI T-411</td> </tr> <tr> <td>Basis Weight, lbs. (24" x 36"/500 sheets)</td> <td>40 +/- 10%</td> <td>TAPPI T-410</td> </tr> </table>			Caliper, inches	0.0024 +/- 10%	TAPPI T-411	Basis Weight, lbs. (24" x 36"/500 sheets)	40 +/- 10%	TAPPI T-410												
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.																				

The user is responsible for determining the product's suitability for all aspects of the application. If there are any questions about applications, 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 at www.mactac.com.

**\* NOTE: Thermal transfer printing quality and bar code scannability are dependent upon the interworking of several elements; the ribbon, the printhead and the facstock. Please test all applications. Consult MACTac's Technical Marketing Department for guidelines regarding printer and ribbon compatibility.**

**CALL 1-800-548-3456 for additional product information**

**IMPORTANT NOTICE:** The information given, and the recommendations made herein are based on our research and are believed to be accurate, but no guarantee of their accuracy or completeness is made. In every case, user shall determine before using any product in full scale production, or in any way, whether such product is suitable for user's intended use for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or fitness for a particular purpose, or any other warranty, express or implied. No representative of ours has any authority to waive or change the foregoing provisions, and no statement or recommendation not contained herein shall have any force of effect unless in an agreement signed by the officers of seller and manufacturer. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent without authority from the owner of the patent. The following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

<sup>TM</sup> Trademark of Morgan Adhesives Company.

® Registered Trademark of Morgan Adhesives Company.

