



**Technical Data Sheet**  
**Edition 1**  
**Date: 14/05/2004**

## **Letratag Plastic tape**

Letratag tape is a direct thermal tape available in six colors. Each cassette contains one tape of 12 mm width and 4 m length.

<b>Property</b>	<b>Unit</b>	<b>Value</b>	<b>Test method</b>
<b>1. General</b>			
- Thickness tape	Micron	145 ± 10 %	Micrometer
- Thickness liner	Micron	55 ± 10 %	
<b>2. Adhesive properties</b>		<b>Dwell</b>	
		<b>20 min    24 hrs</b>	
- to stainless steel	N/25mm	10            11	PSTC-1
- to glass		9             11	
- to PVC		11            14	
- to textured ABS		8             9	
- to powder coated steel		7             8	
- to wood		3             4	
- to polypropylene film glossy		8             11	
- to polyethylene		3             4	
- to tupperware		9             9	
- to steel computer casing		1             1	
<b>3. Abrasion resistance of text printed in Letratag</b>			Crockmeter, 900g weight/arm
- Pencil erasure	30x	No visible effect	
- Polystyrene pin	30x	No visible effect	
- Sandpaper	30x	No visible effect	
<b>Chemical resistance of text printed in Letratag</b>			
- Eurosuper	30x	No visible effect	
- Diesel	30x	No visible effect	
- Isopropylalcohol	30x	Printing gone	
- Ethanol	10x	Printing gone	

*Dwell means the contact time between label and substrate*

<ul style="list-style-type: none"> <li>- Ethyl acetate</li> <li>- Skydrol (hydraulic engine oil)</li> <li>- Sabesto (brake fluid cleaner)</li> <li>- Exxsol 40 (cleaning solvent)</li> <li>- ULS (cleaning solvent)</li> <li>- Ether</li> <li>- Acetone</li> <li>- Toluene</li> <li>- Dreft</li> <li>- Water</li> <li>- Vim</li> <li>- General degreaser</li> <li>- Synthetic thinner</li> <li>- White spirit</li> <li>- Oil spots remover</li> <li>- Cellulose thinner</li> <li>- Calgonit</li> <li>- Sun brilliance</li> <li>- Instanet</li> <li>- Antikal</li> <li>- Nafta</li> <li>- Workspace degreaser</li> </ul>	<ul style="list-style-type: none"> <li>3x</li> <li>30x</li> <li>5x</li> <li>30x</li> <li>5x</li> <li>15x</li> <li>10 x</li> <li>10 x</li> <li>30 x</li> <li>30 x</li> <li>30 x</li> <li>30x</li> <li>30x</li> <li>30 x</li> <li>30 x</li> <li>10 x</li> <li>30x</li> <li>30 x</li> <li>30 x</li> <li>30 x</li> <li>30 x</li> <li>30 x</li> <li>5x</li> </ul>	<ul style="list-style-type: none"> <li>Printing gone</li> <li>Printing gone</li> <li>Printing gone</li> <li>No visible effect</li> <li>Printing gone</li> <li>Printing gone</li> <li>Printing gone</li> <li>Printing gone</li> <li>No visible effect</li> <li>No visible effect</li> <li>No visible effect</li> <li>Severe print removal</li> <li>Printing gone</li> <li>No visible effect</li> <li>No visible effect</li> <li>Printing gone</li> <li>No visible effect</li> <li>Printing gone</li> </ul>	
<p><b>4. Light stability of printed label</b></p> <ul style="list-style-type: none"> <li>- 5 days in suntester with glass filter (corresponds with 2 months exposure behind window glass)</li> <li>- 5 days in suntester with UV- filter (corresponds with 2 months outdoor exposure)</li> </ul>		<ul style="list-style-type: none"> <li>No visible effect on text or background.</li> <li>Slight discoloration of background. No visible effect on text.</li> </ul>	
<p><b>5. Temperature stability</b></p> <ul style="list-style-type: none"> <li>- Application temperature</li> <li>- Short term high service temperature</li> <li>- 10' at 60°C</li> <li>- 10' at 70°C</li> <li>- 10' at 80°C</li> </ul>	<p>°C</p>	<ul style="list-style-type: none"> <li>Room temperature</li> <li>No visible effect on text and background</li> <li>No visible effect on text and background</li> <li>No visible effect on text and background.</li> </ul>	

*Dwell means the contact time between label and substrate*

<p>-10' at 90°C</p> <p>- Long term low service Temperature</p> <p>- 30 days at -18°C</p>		<p>No visible effect on text and background.</p> <p>No visible effect on text and background.</p>	
<p><b>6. Humidity resistance of applied label</b></p> <p>- 30 days at 40°C, 95 % R.H. (on alu panel)</p>		<p>Slight discoloration of text. No visible effect on background.</p>	
<p><b>7. Shelf life of label roll</b></p>		<p>1 year at 5-25°C and 40-85% relative humidity when stored in its original packaging. We are confident that our product will perform well beyond this frame. However, it remains the responsibility of the user to assess the risk of using such product.</p>	

Scratch resistance : The printed labels are subjected to different scratching sources for a fixed number of cycles with a finger weight of 900g.