



**Technical Data Sheet**  
**Edition 4**  
**Date: 21-03-2008**

## D1/D2 Tapes

### (1) Description

D1 is a one-tape system available in 14 different color combinations and five different widths of 6, 9, 12, 19, and 24mm in 7 meter roll lengths. D2 is a two-tape system with separate ribbon and label tape cassettes, which allows for 18 color combinations. The tapes are available in 6, 12, 19, 24, and 32 mm widths and in six colors. The length of the tape is 10m. Ribbons are available in 19mm and 32mm width and 50m length cassettes in 3 colors. D1/D2 tapes are mainly used for the office, retail, consumer and outdoor applications.

Property	Unit	Value		Test method
<b>1. General</b>				
- Thickness tape	Micron	137± 10%		Micrometer
- Thickness liner	Micron	55 ± 10%		
<b>2. Adhesive properties</b>		<b>Dwell</b>		
		<b>20 min</b>	<b>24 hrs</b>	
	N/25mm			PSTC-1
- to stainless steel		7,5	10	
- to glass		9	10	
- to PVC		10	11	
- to textured ABS		6	7	
- to powder coated steel		6	6	
- to wood		2	4	
- to polypropylene film matt		4	5	
- to polypropylene film glossy		7	8	
- to polyethylene		4	5	
- to Lever Arch File		2	2	
- to steel computer casing		1	2	
- to formica		8	9	
- to tupperware		5	10	

<p><b>3. Chemical resistance of text printed in LP300/LM300</b></p> <ul style="list-style-type: none"> <li>- Fuel</li> <li>- Gasoline</li> <li>- Isopropylalcohol</li> <li>- Ethanol</li> <li>- Ethylacetate</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> <p><b>Abrasion resistance of text Printed in LP300/LM300</b></p> <ul style="list-style-type: none"> <li>- Pencil erasure</li> <li>- Polystyrene pin</li> <li>- Sandpaper</li> </ul>	<p><b># passes over the image</b></p> <ul style="list-style-type: none"> <li>60x</li> <li>60x</li> <li>30x</li> <li>10x</li> <li>10x</li> <li>10x</li> <li>10x</li> <li>60x</li> <li>10x</li> <li>10x</li> <li>60 x</li> <li>60 x</li> <li>60 x</li> <li>60 x</li> <li>60 x</li> <li>10x</li> <li>6 x</li> <li>60 x</li> <li>6 x</li> <li>6x</li> <li>60 x</li> <li>60 x</li> <li>60 x</li> <li>60 x</li> <li>60 x</li> <li>60x</li> <li>6 x</li> </ul>	<ul style="list-style-type: none"> <li>No visible effect</li> <li>No visible effect</li> <li>Printing gone</li> <li>Printing gone</li> <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>No visible effect</li> <li>No visible effect</li> <li>No visible effect</li> <li>No visible effect</li> <li>No visible effect</li> <li>Printing gone</li> <li>Printing gone</li> <li>No visible effect</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>No visible effect</li> <li>No visible effect</li> <li>Printing gone</li> </ul>	<p>Crockmeter CM5-AATCC, 900g weiht/arm</p>
<p><b>4. UV light stability</b></p> <ul style="list-style-type: none"> <li>- 30 days with UV filter in Atlas CPS+ Suntester</li> </ul> <p>(corresponds with one year real life outdoor exposure in direct sunlight in Central Europe)</p>		<p>No visible effect on text and background</p>	

<ul style="list-style-type: none"> <li>- 30 days with window filter in Atlas CPS+Suntester</li> </ul> <p>(corresponds with one year real life exposure behind window glass in Central Europe)</p>		No visible effect on text and background	
<b>5. Temperature stability</b> <ul style="list-style-type: none"> <li>- Application temperature</li> <li>- Service temperature</li> </ul> <p>30 days in consumer freezer</p> <p>30 days at 90°C</p> <p>30 days at 120°C</p>	°C	Room temperature  No visible effect  No visible effect on text and background.  Very slight discoloration of background. No visible effect on text.	
<b>6. Humidity resistance of applied label</b> <ul style="list-style-type: none"> <li>- 30 days at 45°C, 85 % R.H.</li> </ul>		No visible effect on text and background.	
<b>7. Weatherability in QUV</b> <ul style="list-style-type: none"> <li>- 30 days at 60°C</li> </ul>		No visible effect on text and no fading of colors	
<b>8. Shelf life of cassette</b>		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.	

