



**Technical Product  
information**

**Date : 05-11-2002**

**M1300 Flexible Nylon**

M1300 is a white nylon coated fabric tape for thermal transfer printing. It is formulated with a permanent acrylic adhesive and is mainly used for identifying electrical cables and wires (flagging and wrapping) as well as to adhere to curved surfaces. It is not recommended for outdoor usage.

Property	Unit	Value		Test method
<b>1. General</b>				
- Thickness tape	Micron	227± 10		Micrometer
- Thickness liner	Micron	80 ± 5		
<b>2. Adhesive properties</b>				
		<b>Dwell</b>		PSTC-1
		<b>20 min</b>	<b>24 hrs</b>	
- to stainless steel	N/25mm	11	13	
- to glass		11	12	
- to PVC		12	14	
- to textured ABS		9	12	
- to powder coated steel		9	15	
- to wood		7	8	
- to polypropylene film		7	8	
- to polyethylene		7	8	
- to Lever Arch File		6	8	
- to steel computer casing		7	9	
<b>3. Flagging properties</b>				
- flagging around electrical cables ( ? 3.6 mm)		Perfect flagging		
- flagging around electrical cables ( ? 8 mm)		Perfect flagging		
- flagging around steel bar (? 14 mm)		Perfect flagging		

*Dwell denotes the contact time between the label and the surface*

<p><b>4. Wrapping properties</b></p> <ul style="list-style-type: none"> <li>- Wrapping around electrical cables ( ? 3.6 mm)</li> <li>- Wrapping around electrical cables ( ? 8 mm)</li> <li>- Wrapping around steel bar ( ? 14 mm)</li> </ul>		<p>Perfect wrapping</p> <p>Perfect wrapping</p> <p>Perfect wrapping</p>	
<p><b>5. Chemical resistance of text printed in ILP219</b></p> <ul style="list-style-type: none"> <li>- Eurosuper</li> <li>- Diesel</li> <li>- Isopropylalcohol</li> <li>- Ethanol</li> <li>- Ethyl acetate</li> <li>- Skydrol* LD-4 (hydraulic engine oil)</li> <li>- Sabesto** automotive brake fluid cleaner</li> <li>- Water</li> </ul> <p><b>Abrasion resistance of text Printed in ILP219</b></p> <ul style="list-style-type: none"> <li>- Pencil erasure</li> <li>- Polystyrene pin</li> <li>- Sandpaper</li> </ul>	<p>30x</p> <p>30x</p> <p>30x</p> <p>15x</p> <p>5x</p> <p>15x</p> <p>15x</p> <p>30x</p> <p>30x</p> <p>30x</p> <p>30x</p>	<p>Slight print removal</p> <p>Slight print removal</p> <p>Printing gone</p> <p>Printing gone</p> <p>Printing gone</p> <p>Printing gone</p> <p>Printing gone</p> <p>Slight print removal</p> <p>No visible effect</p> <p>No visible effect</p> <p>Slight print removal</p>	<p>Crockmeter, 900g weight/arm</p>
<p><b>6. UV light stability of label</b></p> <ul style="list-style-type: none"> <li>- 30 days with UV light in suntester</li> </ul>		<p>No visible effect on text and background</p>	
<p><b>5. Temperature stability</b></p> <ul style="list-style-type: none"> <li>- Application temperature</li> <li>- Service temperature</li> <li>- 30 days in consumer freezer</li> <li>- 30 days at 90°C</li> <li>- 5 minutes at 145°C</li> </ul>	<p>°C</p>	<p>Room temperature</p> <p>No visible effect</p> <p>A slight yellowing of the background</p> <p>No visible effect</p>	

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<b>6. Humidity resistance of applied label</b> - 30 days at 40°C, 95 % R.H		No visible effect	
<b>7. Weatherability in QUV with rain/sun cycles</b> - 30 days at 60°C		No visible effect on text. Slight yellowing of background	
<b>8. Shelf life of cassette</b> - 1 year at 5-25°C and 40-80% relative humidity in its original packaging		Avoid sudden changes in temperature or humidity changes. This may cause condensation problems. Do not store in direct sunlight, avoid Nox and SOx gases as yellowing might occur.	

*\*Skrydrol is a registred trademark from Solutia*

*\*\* Sabesto is a registred trademark from Wurth*

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

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