

*Technical Data Sheet Version 6 Date : 08-12-2003* 

## M1300Y Flexible Nylon

M1300 is a yellow 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. This tape is halogen free.

Property		Unit	Value		Test method
1.	General				
- - -	Total thickness Thickness face material Thickness liner	Micron Micron Micron	230 ± 10 130 ± 10 80 ± 5		Micrometer
2.	Adhesive properties				
	to stainless steel to glass to PVC to textured ABS to powder coated steel to wood to polypropylene film to polyethylene to Lever Arch File to steel computer casing	N/25mm	Dwell 20 min 11 12 9 9 7 7 7 7 6 7	<b>24 hrs</b> 13 12 14 12 15 8 8 8 8 8 9	PSTC-1
3.	Flagging properties				
-	flagging around electrical cables ( $\varnothing$ 3.6 mm)		Perfect flagging		
-	flagging around electrical cables ( $\varnothing$ 8 mm)		Perfect flagging		
-	flagging around steel bar ( $\emptyset$ 14 mm)		Perfect flagging		

Δ	Wrapping properties			
	Mapping properties			
-	Wrapping around electrical cables ( $\varnothing$ 3.6 mm)		Perfect wrapping	
-	Wrapping around electrical cables ( $\varnothing$ 8 mm)		Perfect wrapping	
-	Wrapping around steel bar ( $\emptyset$ 14 mm)		Perfect wrapping	
5.	Chemical resistance of text printed in ILP219			
	Eurosuper Diesel Isopropylalcohol Ethanol Ethyl acetate Skydrol* LD-4 (hydraulic engine oil) Sabesto** automotive brake fluid cleaner Water Abrasion resistance of text Printed in ILP219	30x 30x 30x 15x 5x 15x 15x 30x	Printing gone Slight print removal Printing gone Printing gone Printing gone Printing gone Printing gone Moderate print removal	Crockmeter, 900g weight/arm
- - -	Pencil erasure Polystyrene pin Sandpaper	30x 30x 30x	Slight print removal No visible effect Slight print removal	
6.	UV light stability of label			
-	30 days with UV light in suntester		No visible effect on text. Background becomes white.	
7.	Temperature stability			
- A	pplication temperature	°C	Room temperature	
- L	ong term high service temperature			
	- 30 days at 90°C		No visible effect	
	- 30 days at 120°C		No visible effect	
- Long term low service temperature				
	- 30 days at –18°C		No visible effect	

- Short term high service temperature				
5' exposure	No visible effect to tape up to 180°C ; slight shrinkage of tape at 210°C but print still legible and tape still functional			
8. Humidity resistance of applied label				
- 30 days at 40°C, 95 % R.H.	No visible effect			
9. Weatherability in QUV with rain/sun cycles	To do			
- 30 days at 60°C (on alu panel)				
10. Shelf life of cassette				
<ul> <li>1 year at 5-25°C and 40-80% relative humidity in its original packaging. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional protocols that will qualify a product's fitness for use, in their actual applications.</li> </ul>	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.			

\*Skydrol is a registered trademark from Solutia \*\* Sabesto is a registered 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.