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
1. General				
- Thickness tape	Micron	227± 10		Micrometer
- Thickness liner	Micron	80 ± 5		
2. Adhesive properties		**Dwell**		
		20 min	**24 hrs**	
- to stainless steel	N/25mm	11	13	PSTC-1
- 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	
3. Flagging properties				
- 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

4. Wrapping properties			
- Wrapping around electrical cables (? 3.6 mm)		Perfect wrapping	
- Wrapping around electrical cables (? 8 mm)		Perfect wrapping	
- Wrapping around steel bar (? 14 mm)		Perfect wrapping	
5. **Chemical resistance of text printed in ILP219**			
- Eurosuper	30x	Slight print removal	Crockmeter, 900g weight/arm
- Diesel	30x	Slight print removal	
- Isopropylalcohol	30x	Printing gone	
- Ethanol	15x	Printing gone	
- Ethyl acetate	5x	Printing gone	
- Skydrol* LD-4 (hydraulic engine oil)	15x	Printing gone	
- Sabesto** automotive brake fluid cleaner	15x	Printing gone	
- Water	30x	Slight print removal	
Abrasion resistance of text Printed in ILP219			
- Pencil erasure	30x	No visible effect	
- Polystyrene pin	30x	No visible effect	
- Sandpaper	30x	Slight print removal	
6. UV light stability of label			
- 30 days with UV light in suntester		No visible effect on text and background	
5. Temperature stability			
- Application temperature	°C	Room temperature	
- Service temperature			
- 30 days in consumer freezer		No visible effect	
- 30 days at 90°C		A slight yellowing of the background	
- 5 minutes at 145°C		No visible effect	

Dwell denotes the contact time between the label and the surface

6. Humidity resistance of applied label - 30 days at 40°C, 95 % R.H		No visible effect	
7. Weatherability in QUV with rain/sun cycles **-** 30 days at 60°C		No visible effect on text. Slight yellowing of background	
8. Shelf life of cassette - 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.	

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***** 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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