Technical Data Sheet
Edition 7
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M1300 Flexible Nylon

M1300 is a 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. The tape exists in white and yellow. It is not recommended for outdoor usage. This tape is halogen free.

Property	Unit	Value	Test method
1. General			
- Total thickness	Micron	230 ± 10	Micrometer
2. Adhesive properties		**24 hrs** **72 hrs**	
- to stainless steel	N/25mm	12 15	PSTC-1
- to glass		18 20	
- to PVC		15 20	
- to textured ABS		8 12	
- to powder coated steel		16 17	
- to steel computer casing		14 17	
- to polyethylene		14 15	
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	

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 Rhino 6000**			
- Fuel	30x	Severe print removal	Crockmeter, 900g weight/arm
- Gasoline	30x	Moderate print removal	
- Isopropylalcohol	30x	Printing gone	
- Ethanol	30x	Printing gone	
- Water	30x	Slight print removal	
- Skydrol* LD-4	30x	Printing gone	
- Ethylacetate	5x	Printing gone	
Abrasion resistance of text Printed in Rhino 6000			
- 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	
7. Temperature stability			
- Application temperature	°C	Room temperature	
- Long term high service temperature			
- 30 days at 90°C		A slight yellowing of the background	
- 30 days at 120°C		A slight yellowing of the background	
- 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, slight discoloration, print still legible but loss of adhesive properties ; label not functional anymore	
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 **-** 30 days at 60°C		No visible effect on text. Slight yellowing of background	
10. Shelf life of cassette - 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 testing protocols that will qualify a product's fitness for use, in their actual applications.		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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