DYMO®

Technical Product information

Date : 05-11-2002

M1120 white permanent tape

M1120 is a white polyester tape for thermal transfer printing. It is formulated with a permanent acrylic adhesive and is mainly used for inventory marking as well as for adhesion onto rough surfaces. It can be recommended for outdoor usage.

Property	Unit	Value	Test method
1. General			
- Thickness tape	Micron	135 ± 10%	Micrometer
- Thickness liner	Micron	56 ± 10%	
2. Adhesive properties		**Dwell** **24 hrs** **72 hrs**	
- to stainless steel	N/25mm	22 35	PSTC-1
- to glass		20 40	(modified for
- to PVC		18 36	72 hours)
- to powder coated steel		19 35	
- to wood		13 24	
- to polypropylene film		15 17	
- to polyethylene		10 12	
- to Lever Arch File		8 15	
- to steel computer casing		9 15	
- to textured ABS		22 38	
3. **Chemical resistance of text printed in ILP219**			
- Eurosuper	30x	No visible effect	
- Diesel	30x	No visible effect	Crockmeter,
- Isopropylalcohol	30x	No visible effect	900g
- Ethanol	30x	No visible effect	weight/arm
- Ethyl acetate	5x	Printing gone	
- Skydrol* LD-4 (hydraulic engine oil)	30x	No visible effect	
- Sabesto** (brake fluid cleaner)	30x	No visible effect	
Abrasion resistance of text printed in ILP219			
- Pencil erasure	30x	No visible effect	
- Polystyrene pin	30x	No visible effect	
- Sandpaper	30x	Moderate print removal	

4. UV light stability of label 30 days with UV light in suntester		 No visible effect on text and background	
5. UV light stability of adhesive 30 days with UV light in suntester		 No loss of adhesive properties.	
6. Temperature stability - Application temperature - Service temperature - 30 days in consumer freezer - 30 days at 90°C - 5 minutes at 145°C	 °C	 Room temperature No visible effect No visible effect No visible effect	
7. Humidity resistance of label - 30 days at 40°C, 95 % R.H.		 No visible effect on text and background.	
8. Weatherability in QUV with rain/sun cycles **-** 30 days at 60°C		 No visible effect on text. Slight yellowing of background	
9. Adhesion onto rough surfaces - 30 days on computer housing		 No loss of adhesive properties.	
10. Shelf life of cassette		 1 year at 15-30°C and 35-85% relative humidity in its original packaging	

Skydrol 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.