



Technical Data Sheet
Version 3
Date: 14/11/2017

DYMO LabelWriter Permanent

(1) Description

DYMO LabelWriter Permanent product is a paper label with a high tack permanent adhesive. The product is supplied on a roll in 16 different label formats, for almost all applications such as suspension folders, diskettes, video tapes, files, etc. The labels are printed on the LabelWriter with a thermo-direct printing process, which involves no messy ink ribbons, toner or cartridges. Individual labels or whole rolls can be printed with laser like print quality. This label is recommended for indoor use only. Direct and indirect sunlight as well as high temperatures and humidity must be avoided.

Property	Unit	Value		Test method
1. General				
- Thickness tape	Micron	147± 10		Micrometer
- Thickness liner	Micron	55 ± 5		
2. Adhesive properties		Dwell¹		
		20 min	24 hrs	
- to stainless steel	N/25mm	21	21	PSTC-1
- to glass		16	21	
- to PVC		19	21	
- to textured ABS		16	16	
- to powder coated steel		20	22	
- to wood		7	15	
- to polypropylene film matt		6	8	
- to polypropylene film glossy		18	21	
- to polyethylene		16	17	
- to Lever Arch File		6	9	
- to steel computer casing		8	13	

¹ Dwell means the contact time between label and substrate

<p>3. Abrasion resistance² of text Printed in LabelWriter Turbo 330</p> <ul style="list-style-type: none"> - Pencil erasure - Polystyrene pin - Sandpaper 	<p>30x 30x 30x</p>	<p>No visible effect No visible effect Moderate print removal</p>	<p>Crockmeter 900g weight/arm</p>
<p>4. Light stability of printed label</p> <ul style="list-style-type: none"> - real life test : 6 months protected from direct and indirect sunlight, heat and humidity - real life test : 6 months behind window glass (Belgium) - in Sun tester³ with glass filter (corresponds with direct exposure behind window glass) 		<p>No visible effect</p> <p>Not legible anymore.</p> <p>Background yellows. Severe loss of print quality, but still legible.</p>	
<p>5. Temperature stability</p> <ul style="list-style-type: none"> - Application temperature - Service temperature 30 days in consumer deep freezer 24 h at 50°C 10 minutes at 85°C 	<p>°C</p>	<p>Room temperature</p> <p>-20 to 50 °C</p> <p>No visible effect</p> <p>No visible effect</p> <p>No changes in print quality. Background becomes dark grey.</p>	
<p>6. Humidity resistance of applied label</p> <ul style="list-style-type: none"> - 30 days at 40°C, 95 % R.H. (on alu panel) 		<p>No visible effect</p>	
<p>7. Shelf life of label roll</p> <ul style="list-style-type: none"> - 1 year at 5-25°C and 40-60% relative humidity in its original packaging 		<p>Avoid exposure to heat, humidity & sunlight</p>	

² Abrasion resistance: The printed labels are subjected to different scratching sources for a fixed number of cycles with a finger weight of 900g.

³ Resistance up to wool scale 4. This corresponds with 24 summer days and 48 winter days of exposure behind window glass.