Technical Data Sheet
Final version ; edition 2
Date: 23/10/2002

DYMO LabelWriter Clear

(1) Description

DYMO LabelWriter Clear product is a polypropylene label with a semi-permanent adhesive. The product is supplied on a roll, for almost all applications where a clear label is required. 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 product is recommended for indoor use only. Direct and indirect exposure to sunlight as well as high temperatures and humidity must be avoided.

Property	**Unit**	**Value**	**Test method**
1. General			
- Thickness tape	Micron	150 ± 10	Micrometer
- Thickness liner	Micron	55 ± 5	
2. Adhesive properties		**Dwell[1]** **20 min** **24 hrs**	
- to stainless steel	N/25mm	14 18	PSTC-1
- to glass		10 18	
- to PVC		10 17	
- to textured ABS		9 12	
- to powder coated steel		2 5	
- to wood		5 7	
- to polypropylene film matt		4 6	
- to polypropylene film glossy		9 10	
- to polyethylene		4 6	
- to Lever Arch File		2 3	
- to steel computer casing		2 5	

[1] *Dwell denotes the contact time between label and surface*

3. **Chemical resistance[2] of text printed in LabelWriter Turbo 330**			
- Eurosuper	30x	No visible effect	Crockmeter,
- Diesel	30x	No visible effect	900g
- Isopropylalcohol	30x	No visible effect	weight/arm
- Ethanol	30x	No visible effect	
- Ethyl acetate	30x	Printing gone	
- Skydrol LD-4 (hydraulic engine oil)	30x	Printing gone	
- Water	30x	Severe print removal	
Abrasion resistance[2] of text Printed in LabelWriter Turbo 330			
- Pencil erasure	30x	No visible effect	
- Polystyrene pin	30x	No visible effect	
- Sandpaper	30x	Slight print removal	
4. Light stability[3] of printed label			
- in suntester with glass filter (corresponds with direct exposure behind 3 mm window glass)		Background becomes yellow-brown. The print fades but is still legible.	
5. Temperature stability			
- Application temperature	°C	Room temperature	
- Service temperature		-20 to 50 °C	
30 days in consumer deep freezer		No visible effect	
24 h at 50°C		No visible effect	
10 minutes at 85°C		No changes in print quality. Background becomes dark grey.	

[2] *Resistance: The printed labels are subjected to different chemical and scratching sources for a fixed number of cycles with a finger weight of 900g.*

[3] *Resistance up to wool scale 6. This corresponds with 108 winter days and 216 summer days exposure behind window glass.*

6. Humidity resistance of applied label - 30 days at 40°C, 95 % R.H. (on alu panel)		To be done	
7. Shelf life of label roll - 1 year at 5-25°C and 40-80% relative humidity in its original packaging		Avoid exposure to heat, humidity & sunlight.	