*DYMO XTL Industrial Vinyl (PVC) Tape*

Description

DYMO Industrial Vinyl tape is formulated with a permanent acrylic adhesive and a topcoat specifically for thermal transfer printing. Vinyl tape is mainly used for general ID, electrical panels, asset labeling, visual workplace, pipe marking and 5S labeling. This tape is recommended for indoor and outdoor use and can be used on curved or flat surfaces.

DYMO Part Numbers

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1868741 | 1868749 | 1868757 | 1868765 | 1868773 | 1868781 | 1868789 | 1868797 | 1868805 |
| 1868742 | 1868750 | 1868758 | 1868766 | 1868774 | 1868782 | 1868790 | 1868798 |  |
| 1868743 | 1868751 | 1868759 | 1868767 | 1868775 | 1868783 | 1868791 | 1868799 |  |
| 1868744 | 1868752 | 1868760 | 1868768 | 1868776 | 1868784 | 1868792 | 1868800 |  |
| 1868745 | 1868753 | 1868761 | 1868769 | 1868777 | 1868785 | 1868793 | 1868801 |  |
| 1868746 | 1868754 | 1868762 | 1868770 | 1868778 | 1868786 | 1868794 | 1868802 |  |
| 1868747 | 1868755 | 1868763 | 1868771 | 1868779 | 1868787 | 1868795 | 1868803 |  |
| 1868748 | 1868756 | 1868764 | 1868772 | 1868780 | 1868788 | 1868796 | 1868804 |  |

Available Colors & Sizes

|  |  |  |
| --- | --- | --- |
| Print Color | Tape Color | Available Widths (in, mm) |
| Black | White | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| Black | Yellow | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| Black | Orange | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| Black | Clear | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| Black  | Gray | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| White | Black | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| White | Red | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| White | Green | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| White | Blue | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| White | Purple | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| White | Brown | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| Red | Clear | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |
| Red | White | ½, 12mm; ¾, 19mm; 1, 24mm, 1.5, 41mm; 2, 54 mm |

Certifications and & Standards Adherence

* UL Recognized as a component to ***UL969*** (UL File Number MH48389)

All UL information can be found at [UL.com](http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm) under certifications

* To the best of our company’s knowledge we declare that our products meet the most recent standards of the European Directives considering ***REACH*** and ***ROHS***. None of the substances identified as “substance of concern“ has been and will be contained in the product(s), listed on this Technical Data Sheet, to a higher level than mentioned in the European Directives considering REACH and ROHS.

Physical Properties

* *Total Thickness:* 178 µm +/- 10%
* *Dimensional Stability (%):*
	+ MD <1.0 observed on an aluminum panel at 70°C (158°F) for 24 hrs.
	+ TD <1.0 observed on an aluminum panel at 70°C (158°F) for 24 hrs.

Adhesive Properties (tested per FTM 1 – Modified for 72 hr dwell time)

*Adhesion to Surfaces*

|  |  |  |
| --- | --- | --- |
| Surface (N/25mm) | 72 hrs. | Test Method |
| Stainless steel | 27 | FTM-1 |
| Acrylic | 31 |
| Glass | 31 |

* *Tack* (ASTM D 2979):800*gm/cm²*

Temperature Ratings (tested per UL969)

|  |  |  |  |
| --- | --- | --- | --- |
| Surfaces  | Temperature (°C)Max Min | Indoor Use | Outdoor Use |
| Acrylonitrile butadiene styrene | 60 | -40 | x | x  |
| Aluminum | 60 | -40 | x | x  |
| EPDM rubber | 60 | -40 | x | x  |
| Galvanized steel | 60 | -40 | x | x  |
| Glass | 60 | -40 | x | x  |
| Nylon – Polyamide | 60 | -40 | x | x  |
| Phenolic – Phenol Formaldehyde | 60 | -40 | x | x  |
| Polycarbonate | 60 | -40 | x | x  |
| Polyester paint | 60 | -40 | x | x  |
| Polyethylene | 60 | -40 | x | x  |
| Polyethylene terephthalate | 60 | -40 | x | x  |
| Polyimide | 60 | -40 | x | x  |
| Polypropylene | 60 | -40 | x | x  |
| Polystyrene | 60 | -40 | x | x  |
| Polyurethane paint | 60 | -40 | x | x  |
| Polyvinyl chloride | 60 | -40 | x | x  |
| Stainless steel | 60 | -40 | x | x  |

Chemical Resistance (printed with XTL 300 / XTL 500 )

**Test Method**: Crockmeter, 900g weight/arm

 1. Printed with black ribbon:

|  |  |  |  |
| --- | --- | --- | --- |
| Chemical | # of rubs | Result with XTL 300 | Result with XTL 500 |
| Fuel  | 30x | slight print removal | moderate print removal |
| Gasoline | 30x | no visible effect | no visible effect |
| Isopropyl alcohol | 30x | no visible effect | no visible effect |
| Ethanol | 30x | no visible effect | no visible effect |
| Ethyl acetate | 5x | printing gone | printing gone |
| Skydrol\* LD-4 | 30x | slight print removal | slight print removal |
| EXXSOL 40 (cleaning solvent) | 30x | slight print removal | slight print removal |
| ULS (cleaning solvent) | 30x | slight print removal | slight print removal |
| Acetone | 5x | printing gone | printing gone |
| Water  | 30x | no visible effect | no visible effect |
| General degreaser | 30x | slight print removal | slight print removal |
| Synthetic thinner | 20x | printing gone | printing gone |
| White Spirit | 30x | slight print removal | slight print removal |
| Oil spots remover | 30x | slight print removal | slight print removal |
| Cellullose thinner | 5x | printing gone | printing gone |
| Calgonit | 30x | no visible effect | no visible effect |
| Workspace degreaser | 30x | severe print removal | moderate print removal |

2. Printed with white ribbon:

|  |  |  |  |
| --- | --- | --- | --- |
| Chemical | # of rubs | Result with XTL 300 | Result with XTL 500 |
| Fuel  | 30x | no visible effect | no visible effect |
| Gasoline | 30x | no visible effect | no visible effect |
| Isopropyl alcohol | 30x | no visible effect | no visible effect |
| Ethanol | 30x | no visible effect | no visible effect |
| Ethyl acetate | 5x | printing gone | printing gone |
| Skydrol\* LD-4 | 30x | severe print removal | moderate print removal |
| EXXSOL 40 (cleaning solvent) | 30x | no visible effect | no visible effect |
| ULS (cleaning solvent) | 30x | slight print removal | slight print removal |
| Acetone | 5x | printing gone | printing gone |
| Water  | 30x | no visible effect | no visible effect |
| General degreaser | 30x | no visible effect | no visible effect |
| Synthetic thinner | 5x | printing gone | printing gone |
| White Spirit | 30x | no visible effect | no visible effect |
| Oil spots remover | 15x | printing gone | printing gone |
| Cellullose thinner | 5x | printing gone | printing gone |
| Calgonit | 30x | no visible effect | no visible effect |
| Workspace degreaser | 20x | printing gone | slight print removal |

UV Light Resistance (tested per UL969)

|  |  |  |  |
| --- | --- | --- | --- |
| UV light stability of: | Time | Result | Test Method |
| Label | 30 days | - No visible effect on text and background- Slight shrinkage of material | Constant UV light exposure in Suntester |
| Adhesive | 30 days | No loss of adhesive properties |

Humidity Resistance

* Printed labels adhered to aluminum surface for 30 days at 45°C (113°F), 85% Relative Humidity with no visible effect on text or background; Slight shrinkage of material

Shelf life of label cassette

* Two years stored at 21°C (69.8°F) and 50% Relative Humidity

Notice

* This product is not developed to be used on humans, animals and/or in direct food contact.

\*Skydrol is a registered trademark from Solutia

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