*XTL Permanent Flat Surface*

Description

Polyester (PET) tape used for thermal transfer printing. It is formulated with a permanent acrylic adhesive and is mainly used for general ID, inventory and warehouse marking, and the marking of connectivity panels. This tape adheres to smooth and rough surfaces, however is not recommended for use on curved or rounded surfaces. This tape is halogen free.

DYMO Part Numbers

|  |  |
| --- | --- |
| 1868735 | 1868736 |
| 1868737 | 1868738 |
| 1868739 | 1868740 |

Available Colors & Sizes

|  |  |  |
| --- | --- | --- |
| Print Color | Tape Color | Available Widths (in, mm) |
| Black | White | ¼”, 6mm; 3/8”, 9mm; ½”, 12mm;  |
| Black  | Clear | ¼”, 6mm; 3/8”, 9mm; ½”, 12mm; |

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:*  131 µm +/- 10%
* *Dimensional Stability (%):* No shrinkage 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 | 26 | FTM-1 |
| Polypropylene | 30 |
| Glass | 26 |
| Automotive Paint | 30 |
| PBT | 31 |

* *Tack* (ASTM D 2979):980*gm/cm²*

Temperature Ratings (tested per UL969)

|  |  |  |  |
| --- | --- | --- | --- |
| Surfaces  | Temperature (°C)Max Min | Indoor Use | Outdoor Use |
| Aluminum | 150 | -40 | X | x |
| Galvanized steel | 150 | -40 | X | x |
| Stainless steel | 150 | -40 | X | x |
| Glass | 100 | -40 | X | x |
| Nylon – Polyamide | 100 | -40 | X | x |
| Polyester paint | 100 | -40 | X | x |
| Polyethylene terephthalate | 100 | -40 | X | x |
| Polyimide | 100 | -40 | X | x |
| Polyurethane paint | 100 | -40 | X | x |
| Acrylonitrile butadiene styrene | 80 | -40 | X | x |
| Polypropylene | 80 | -40 | X | x |
| EPDM rubber | 60 | -40 | X | x |
| Phenolic – Phenol Formaldehyde | 60 | -40 | X | x |
| Polycarbonate | 60 | -40 | X | x |
| Polyethylene | 60 | -40 | X | x |
| Polystyrene | 60 | -40 | X | x |
| Polyvinyl chloride | 60 | -40 | X | x |

Chemical Resistance (printed with XTL 300 / XTL 500 )

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

|  |  |  |  |
| --- | --- | --- | --- |
| Chemical | # of rubs | Result with XTL 300 | Result with XTL 500 |
| Fuel  | 30x | moderate print removal | slight print removal |
| Gasoline | 30x | moderate print removal | slight print removal |
| Isopropyl alcohol | 30x | moderate print removal | slight print removal |
| Ethanol | 30x | no visible effect | slight print removal |
| Ethyl acetate | 5x | printing gone | printing gone |
| Skydrol\* LD-4 | 30x | moderate print removal | moderate print removal |
| EXXSOL 40 (cleaning solvent) | 30x | slight print removal | severe print removal |
| ULS (cleaning solvent) | 30x | severe print removal | severe print removal |
| Acetone | 5x | printing gone | printing gone |
| Water  | 30x | no visible effect | no visible effect |
| General degreaser | 30x | moderate print removal | moderate print removal |
| Synthetic thinner | 10x | printing gone  | printing gone  |
| White Spirit | 30x | moderate print removal | severe 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 | severe 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 | 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

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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