DYMO 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. This tape is halogen free.

DYMO Part Numbers

18443	18444	18445	1805430	18432
18433	1805431	18435	18436	1805427
1805413	1805419	1805425	1805416	1805422
1805429	1805437	1805435	1805436	1805432
1805414	1805420	1805426	1805243	1805417
1805423	1805415	1805421	1805428	1805412
1805418	1805424			

Available Colors & Sizes

Print Color	**Tape Color**	**Available Widths (in, mm)**
Black	White	⅜, 9mm; ½, 12mm; ¾, 19mm; 1, 24mm
Black	Yellow	½, 12mm; ¾, 19mm; 1, 24mm
Black	Orange	½, 12mm; ¾, 19mm; 1, 24mm
Black	Grey	½, 12mm; ¾, 19mm; 1, 24mm
White	Black	⅜, 9mm; ½, 12mm; ¾, 19mm; 1, 24mm
White	Red	½, 12mm; ¾, 19mm; 1, 24mm
White	Green	½, 12mm; ¾, 19mm; 1, 24mm
White	Blue	½, 12mm; ¾, 19mm; 1, 24mm
White	Purple	½, 12mm; ¾, 19mm; 1, 24mm
White	Brown	½, 12mm; ¾, 19mm; 1, 24mm

Certifications and & Standards Adherence

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

All UL information can be found at UL.com 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 *UL969*)

Adhesion to Surfaces

Surface (N/25mm)	**72 hrs.**	**Test Method**
ABS	24	FTM-1
Stainless steel	29	
Galvanized steel	29	
PVC	27	
Polycarbonate	28	
Anodized aluminum	41	
Polystyrene	36	
HDPE	17	
Glass	36	
Polypropylene	34	
Polyethylene Terephthalate	35	
Nylon - polyamide	38	
Polyurethane paint on Aluminum	39	
Polyester paint on Aluminum	40	
PE - cross linked	12	
EPMD rubber	38	
Bare aluminum	39	
LDPE	11	
Polyimide Kapton	36	
Phenolic	37	

- *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	-
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 black ribbon on the Rhino 6000)

Chemical	# of rubs	Result	Test Method
Fuel	30x	No visible effect	Crockmeter, 900g weight/arm
Gasoline	30x	No visible effect	
Isopropyl alcohol	30x	No visible effect	
Ethanol	30x	No visible effect	
Water	30x	No visible effect	
Skydrol* LD-4	30x	Slight print removal	
Ethyl acetate	5x	Printing gone	
Papanicolau og. 6	30x	No visible effect	
Hematoxylin (stain)	30x	No visible effect	
Xylene	30x	Printing gone	

Abrasion Resistance (Printed with the Rhino 6000)

Abrasive Object	# of rubs	Result	Test Method
Pencil eraser	30x	No visible effect	Crockmeter, 900g weight/arm
Polystyrene pin	30x	No visible effect	

Sandpaper	30x	Slight print removal	

UV Light Resistance

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

All of the descriptive information, performance data, and recommendations for the use of DYMO products shall be used only as a guide and do not reflect the specification or specification range for any particular property of the product. Furnishing such information is an attempt to assist you and in no event will constitute a warranty of any kind by DYMO or DYMO distributors. All purchasers of DYMO products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased.