

Thermal Transfer Printable Vinyl Tape

PRODUCT SPECIFICATIONS:

Description:

Print Technology	Thermal Transfer
Material	Vinyl chloride
Adhesive	Acrylic
Standard Colors	White, Yellow
Finish	Matte
Print operating Range*1	15 degrees C or more
Service Temperature	From -40 to 90 degrees C
Storage Condition	From -10 to 40 and from 30% to 80% Relative Humidity

*1: Print on a tape under this condition.

Thickness (mm)

	White	Yellow
Substrate	0.080	0.080
Adhesive	0.020	0.020
Liner	0.073	0.073
Total	0.173	0.173

APPLICATIONS

General identification for indoor/outdoor usage, barcode label, caution or warning label.

REGULATORY/AGENCY APPROVALS

UL/ cUL: Epson Vinyl label (Black on White and Black on Yellow) is compliant to UL969 for Indoor use. You may refer to details on www.ul.com under file MH49716, Vol 1.

Listed SKUs on MH49716, Vol 1:

SKU	Width	Ink color/ tape color
212VTBWPX	1/2" (12mm)	Black on White
218VTBWPX	3/4" (18mm)	
224VTBWPX	1" (24mm)	
236VTBWPX	1 1/2" (36mm)	
250VTBWPX	2" (50mm)	
B2++VTBWPX	1/2", 3/4", 1/2", 1 1/2", 2"	

212VTBYPX	1/2" (12mm)	Black on Yellow
218VTBYPX	3/4" (18mm)	
224VTBYPX	1" (24mm)	
236VTBYPX	1 1/2" (36mm)	
250VTBYPX	2" (50mm)	
B2++VTBYPX	1/2", 3/4", 1/2", 1 1/2", 2"	

Note: Some number might be added instead of “++”.

RoHS: Epson Polyester Film label is compliant to RoHS Standards to Directive (2011/65/ EU) and (Annex II (EU) 2015/863) established on June 8, 2011.

PROPERTIES

Properties		Test method	Average result	
<u>Adhesive</u>				
Adhesion to	Time			
Stainless Steel	20 min.	Compliance to JIS (Japanese Industrial Standards) Z 0237(2000), pressure-sensitive adhesive tapes and sheets testing. Peeling angle 180 degrees / peeling speed 300mm/min	21.4 N/25mm	
	96 hours		21.1 N/25mm	
Polypropylene	20 min.		16.0 N/25mm	
	96 hours		14.4 N/25mm	
Glass	20 min.		16.2 N/25mm	
	96 hours		16.4 N/25mm	
Vinyl chloride	20 min.		20.3 N/25mm	
	96 hours		20.6 N/25mm	
Acrylic	20 min.		17.2 N/25mm	
	96 hours		18.6 N/25mm	
<u>Tack</u>			Probe tack test with dia. 5mm probe	5.35 N
<u>UV Light resistance</u>			Putting on stainless plate, then irradiance 40W/m ² , B.P.T 63 degrees C and 50% RH, for 390 hours in Super Xenon Weather Meter (Suga SX75)	No visible effect, such as peeling / cracking / discoloration / printed text removing.
<u>Weatherability</u>		Repeat below 1 to 4 for 55 hours / 110 hours using Metaling Weather meter machine (SUGA M6T). 1. Irradiation for 8 hours 0.72kW/m ² irradiance, B.P.T 83 degrees C and 50% RH 2. Spray water for 10 second 3. Dark and condensation for 4 hour 30 degree C and 50% RH	No visible effect, such as peeling / cracking / discoloration / printed text removing.	

<u>High Service Temperature</u>	Putting on glass plate at 90°C for 700 hours.	No visible effect, such as peeling / cracking / discoloration / printed text removing.
<u>Low Service Temperature</u>	Putting on glass plate at -40°C for 700 hours.	
<u>Abrasion Resistance</u>	50 cycles on 500gf pressure by Japanese 10 Yen copper coin	No visible effect
	50 cycles on 2kgf pressure by plastic eraser.	No visible effect

Number of years of weather resistance

EPSON white vinyl labels are weather resistant for approximately 12 years, Yellow is 8 years.

Actual weather resistance depends on the conditions in which the product is used.

CHEMICAL/ SOLVENT RESISTANCE

Chemical reagents	Test method	Results
Trichloroethane	Attach the label to glass plate, then sink in each chemical / solvent for 10 minutes.	Failed
Sodium Hypochlorite		No Effect
Ammonia (10%)	After that leave for 30 minutes. Repeat 5 sets.	No Effect
Sulfuric Acid (10%)		No Effect
Hydrogen Chloride (30%)		No Effect
Salt Water (5%)		No Effect
Acetic Acid		Failed (after 4 times)
Sodium Hydroxide (50%)		No Effect
Terpene Cleaner		Failed (after 5 times)
Fomula409 (Cleaner)		No Effect
MIL-H-5606 Oil		No Effect
Mil 7808 Oil		No Effect
Brake Cleaner		No Effect
Fluid type rust preventive		No Effect
Brake Fluid DOT4		No Effect
Engine Oil		No Effect
Cleaning Solvent		No Effect
Acetone	Failed	
Isopropyl Alcohol	No Effect	
Ethanol	No Effect	
Gasoline	No Effect	
Jet fuel (JP-8)	No Effect	
Toluene	Failed	
Hexane	No Effect	
Heptane	No Effect	

Water		No Effect
Mineral Spirit		No Effect
Methanol		No Effect
Ethyl Methyl Ketone		Failed
Ethyl Acetate		Failed

Note:

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Product availability may vary by country. Please refer to your local Epson office for full details.

Note that the information about the characteristics, such as numeric values, described in this document are the evaluation results for information only, not for guarantees.