

**Thermal Transfer Printable Self-Laminating Translucent Vinyl Tape  
(Vinyl Self-Laminating Overwrap/ Cable Wrap)**

**PRODUCT SPECIFICATIONS:**

**Description:**

Print Technology	Thermal Transfer
Material Type	Translucent vinyl
Adhesive	Acrylic
Standard Colors	Translucent film with white printable area
Finish	Self-laminated format
Service Temperature Range	-40°C to 90°C
Recommended Application Temperature	5°C to 35°C
Storage Condition	From -10°C to 40°C and from 30% to 80% Relative Humidity

**Thickness (mm)**

	Transparent
Substrate	0.050
(Colored layer)	(0.010)
Adhesive	0.015
Liner	0.087
Total	0.172

**APPLICATIONS**

Wire and cable identification

**REGULATORY/AGENCY APPROVALS**

**RoHS:** Epson Translucent Vinyl Tape (Self-laminating cable wrap tape) is compliant to RoHS Standards to Directive (2011/65/ EU) and (Annex II (EU) 2015/863) established on June 8, 2011.

Target model

SKU	Ink color/tape color
LK-6WBVS, LK-7WBVS	Black on White/ Transparent

## PROPERTIES

Properties		Test method	Average result	
<b><u>Adhesive</u></b>				
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	17.47 N/25mm	
	96 hours		27.91 N/25mm	
Polypropylene	20 min.		6.72 N/25mm	
	96 hours		8.86 N/25mm	
Glass	20 min.		10.76 N/25mm	
	96 hours		11.16 N/25mm	
Vinyl chloride	20 min.		16.21 N/25mm	
	96 hours		15.87 N/25mm	
Acrylic	20 min.		10.42 N/25mm	
	96 hours		13.69 N/25mm	
<b><u>Shear / Displacement</u></b>			Putting on glass plate (adhesion area is 12 x 20 mm), then load 1kg to the label for 1 hour	53,906 sec.
<b><u>Tack</u></b>			Probe tack test with dia. 5mm probe	5.3 N
<b><u>UV Light resistance</u></b>		Putting on stainless plate, then irradiance 40W/m <sup>2</sup> , 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.	
<b><u>Weatherability</u></b>		Repeat below 1 to 4 for 55 hours / 110 hours. 1. Irradiation for 10 hours 1.24kW/m <sup>2</sup> irradiance, B.P.T 63 degrees C and 50% RH 2. Spray plain water for 1 minute 3. Dark and condensation for 1 hour 4. Spray plain water for 1 minute  55 hours / 110 hours acceleration test equals to 1 year / 2 years of environment of Japan in metaling weather meter machine (SUGA M6T).	No visible effect, such as peeling / cracking / discoloration / printed text removing.	
Abrasion Resistance		50 cycles on 500gf pressure by Japanese 10 Yen coin  50 cycles on 2kgf pressure by plastic eraser.	No visible effect, such as printed text removing	

**CHEMICAL/ SOLVENT RESISTANCE**

<b>Chemical reagents</b>	<b>Test method</b>	<b>Results</b>
Trichloroethane	Paste the labels on glass rods of $\Phi$ 3mm $\times$ 100mm, then sink in each chemical / solvent for 10 minutes. After that leave for 30 minutes. Repeat 5 sets.	Failed
Sodium Hypochlorite		No Effect
Ammonia (10%)		No Effect
Sulfuric Acid (10%)		No Effect
Hydrogen Chloride (30%)		No Effect
Salt Water (5%)		No Effect
Acetic Acid		No Effect
Sodium Hydroxide (50%)		No Effect
Terpene Cleaner		No Effect
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.