

# B427

## TRANSLUCENT VINYL TAPE



### Description

B427 is an excellent material for wire and cable identification. This material has good clarity, conformability and is self-extinguishing. B427 has outstanding water and oil resistance.

<b>Material</b>	Translucent vinyl
<b>Finishing</b>	Provided in a self-laminated format with a white printable zone and a translucent overlaminating area.
<b>Color</b>	White, yellow, green, red, silver and black
<b>Adhesive</b>	Permanent acrylic
<b>Print technology</b>	Thermal transfer

### Physical data

Physical properties	Test methods	Average results
Thickness	ASTM D 1000 - Total thickness	0.0040 inch (0.102mm)
Adhesion to: - Stainless steel - Polypropylene	ASTM D 1000 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell	38 oz/in (42 N/100 mm) 49 oz/in (54 N/100 mm) 25 oz/in (28 N/100 mm) 33 oz/in (36 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack (1 second dwell, 1 cm/sec separation)	13.3 oz (378 g)
Tensile Strength and Elongation	ASTM D 1000 -Machine -Cross	12 lbs/in (210 N/100 mm), 152% 11 lbs/in (193 N/100 mm), 195%
Flammability	ASTM D 1000 Average Burn Time	ABT less than 10 seconds

Performance properties tested with white printable zone of B427 printed with R4300 black thermal transfer ribbon.  
Samples wrapped around 0.080" OD TFE wire in a self-laminating format.

Performance properties	Test methods	Typical results
High Service Temperature	30 days at 158°F (70°C)	No visible effect at 158°F (70°C). Moderate discoloration at 212°F (100°C) but still functional.
Low service Temperature	30 days at -94°F (-70°C)	No visual effect
Humidity Resistance	30 days at 100°F (37°C), 95% R.H.	No visual effect
UV Light Resistance	ASTM G155, cycle 1, Dry	No visual effect

	30 days in Q-Sun Xenon Test Chamber	
Weatherability	ASTM G155, Cycle 1 30 days in Xenon arc Weather-Ometer®	No visual effect

## Chemical resistance

Chemical reagent	Substrate / adhesive	Ribbon
<b>Cleaners and solvents</b>		
Isopropyl Alcohol	No visible effect	No visible effect
Mineral Spirits	No visible effect	No visible effect
Northwoods™ Buzz Saw Terpene Cleaner	No visible effect	No visible effect
Formula 409®	No visible effect	No visible effect
Deionized Water	No visible effect	No visible effect
<b>Fuels, oils and lubricants</b>		
Gasoline	Moderate unwrap	No visible effect
Brake Fluid	No visible effect	No visible effect
SAE 30 WT Oil at 70°C	No visible effect	No visible effect
Yellow 77® Wire Pulling Lubricant	No visible effect	No visible effect
Deionized Water	No visible effect	No visible effect
<b>Aerospace related fluids</b>		
JP-8 Jet Fuel	No visible effect	No visible effect
Skydrol 500B-4	Material destroyed	NA
MIL-H-5606 Oil	No visible effect	No visible effect

B427 is not recommended for use in harsh organic solvents such as methyl ethyl ketone, acetone, or 1,1,1-trichloroethane.

## Storage

Product testing, customer feedback, and history of similar products, support a customer performance expectation of one year from the date of receipt for this product as long as this product is stored in its original packaging in an environment below 80°F (27°C) and 60% RH. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications .

**Regulatory approvals****UL**

B-427 is UL Recognized to UL969A Labeling and Marking Standard when printed with the Brady Series R4300 and R7950 ribbons. See UL files MH64936 (Brady Worldwide, INC.) and MH9997 (W H Brady NV) for specific details. Customers should specify at purchase if they require UL969A Recognized B-427 labels.

**REACH**

This item is manufactured or purchased in accordance with, and conform to the Altec product specifications.

We refer to the REACH legislation 1907/2006. SVHC's on the Candidate list published by the ECHA (European Chemicals Agency) on 8th July 2021 have not been intentionally added to the products listed below – as well as any articles contained within the products - and therefore, to the best of our knowledge, are not contained above 0,1% wt/wt. Therefore we meet the requirements of the 27<sup>th</sup> update of the REACH candidate list.

This certificate does not cover any packaging accompanying the material and only covers the material as applied. This information is based upon information provided by suppliers, technical assessment of products, or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Altec makes no independent representations or warranties - expressed or implied - and assume no liability in connection with the use of this information.

**RoHS**

The following item(s) are manufactured or purchased in accordance with, and conform to the Altec product specifications. The following items are RoHS compliant to Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment and Amendment 2015/863.

None of the RoHS exemptions apply.

Product compliance is based upon information provided by suppliers of the raw materials used by Altec to manufacture these products or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Altec makes no independent representations or warranty, expressed or implied, and assumes no liability in connection with the use of this information.

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