

Technical Data Sheet

High Performance SilverTape®
10mil. Industrial Series
VST 3025

Application **VST 3025**

A very thin double-sided, high-performance acrylic-based adhesive tape, which is mainly used because of its technical, economical and aesthetic advantages. This tape replaces and eliminates the use of mechanical fasteners and is used in a wide variety of applications, particularly in the electronics and assembly industries, where durability, precision, invisibility, and withstanding process heat and other harsh environmental conditions are important.

VST 3025

This thin tape is designed to adhere to various surfaces, such as ABS, polycarbonates, rigid PVC, phenolic resins, glass, epoxy, aluminum, galvanized steel, enameled steel, stainless steel, nickel and ceramic. The thin adhesive film allows a good adhesive performance on a variety of molded parts. This AFT has excellent UV, aging, solvent and high temperature resistance (150°C to 260°C). This series is, in many situations, virtually invisible and allows the usage of light weight, thin and small materials in many shapes and sizes. Therefore, it is widely used in various die-cut shapes, irregular and curved surfaces and in a diversity of electronic assembly bonding applications, such as digital cameras, portable audio devices, cell phones, display attachment, process control systems, decorative bezel and television screen attachments, and lens and antenna attachment. For difficult to bond surfaces, as used in today's electronic assembly industry and for situations where the bond needs to be invisible, we recommend Silver Tape 8502.

General Information

VST 3025

Has a closed cell structure which is wind and water resistant. Because it is 100% acrylic based, it will form an almost indestructible bond between materials. This tape is resistant to UV, aging, and solvents, with good plasticizer resistance. This tape bonds immediately and offers resistance to the peel and shear loads that can affect a bond. This tape is very well suited to absorb dynamic loads as they are viscoelastic and can act as a sealant, form a permanent, tension free bond, and are suitable to bond many different types of synthetic materials.

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Structure

Tape type:	VST 3025
Adhesive:	High Performance Acrylic
Adhesive carrier:	Conformable Closed Cell Acrylic Foam
Description:	Thin, Transparent
Coating:	Clear 40 (liner side) Clear 40 (open side)
Thickness: inch (mm)	0.010 (.25)
Tolerance: inch (mm)	+ 0.004 (0,1)
Density: lb/ft ³ (kg/m ³)	52 (840)
Tape Color:	Transparent
Liner:	Red PE film (paper liner is optional)

Tape Characteristics

Tape type:	VST 3025
Peel Adhesion: lb/in (N/100mm) (ASTM D 3330)	15 (260)
Normal Tensile: lb/in ² (kPa) (ASTM 897)	109 (750)
Dynamic Shear: lb/in ² (kPa 20min)	81 (560)
Overlap: lb/in ² (kPa 24h.) (ASTM 1002)	87 (600)
Static Shear: lb/in ² (kPa) (ASTM 3654)	77 (530)
Solvent Resistance:	Excellent
UV Resistance:	Excellent
Temperature Resistance	
Long term: F° (°C)	212 (100)
Short term: F° (°C)	320 (160)

Available Sizes

Standard Length: yards (meter)	36 (33,0)
Maximum Length: yards (meter)	72 (66,0)
Core Diameter: inch (mm)	3 (75,0)
Width Tolerance: inch (mm)	+ 0.016 (0,4)

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Manual Production

Every good bond starts with good preparation. This preparation consists of several steps, such as cleaning, use of a primer and the right working area. Please ensure that your workshop area is in a dust free environment and has a minimum room temperature of 59 F° (15 °Celsius).

Cleaning

Before you begin, always check that the materials you want to bond to are clean and dry. If they are highly contaminated with oil or grease, clean them with an industrial cleaner or a heptanes solution. Even when the surface is clean, use a 100% Isopropanol solution cleaner. Ensure that you wipe the surface in just one direction, so that the dirt is wiped off. If you do not do this, you will always leave some dust or dirt on the substrate.

Quality

The quality of the bond also depends largely on the contact that the two surfaces make with each other. Due to its viscoelasticity, the tape is able to flow into the microscopic pores of the materials. However, if there is a big surface mismatch or if the materials are not pressed together the bond will reach its end strength more slowly, or not at all. Therefore, we advise you to put pressure on the bond of at least 15psi to allow the tape to make the strongest bond between the two materials.

Maximum Bond

The end strength will be reached much faster if you use a primer. This enables the tape to reach its end bond within 5 - 20 minutes instead of taking 72 hours. If you have any questions regarding the primer, the manual or the mechanical application, please contact our technical sales team.

Storage & Shelf life Important Information

Please make sure that the tape is stored in its original packaging, in a dry place and at a temperature of preferably between 39 F° and 100 F° (4 °C and 38 °Celsius). When the tape is stored under the right conditions, it has a shelf life of 18 months.

All technical data in this product data sheet is based on our own experience and independent test labs. These values are representative and cannot automatically be used for your own specific application. You will need to test whether the tape is suitable for your application or project first. We must point out that you need to follow the rules and regulations that are applicable in the state, county or country that you are using our product in. If you have any questions regarding the use of our acrylic foam tape, please contact our technical service or technical sales team. For questions on the warranty, we refer to our delivery terms and conditions, or another warranty document should be agreed on in writing between us and the customer.