

AFTC Adhesive Backed Reclosable Fasteners

EasyClic® 8502/Thin

Thin

PRODUCT INFORMATION 05.2010

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Application

EasyClic® 8502 - Thin

Are High Performance Adhesive Backed Reclosable Fasteners which are often used because of their technical, economical and aesthetic advantages in comparison with screws, snaps, hooks, bolts and more. EasyClic® helps to overcome the often difficult alignment or installation problems of screws and hidden fasteners and is used in a wide variety of applications, particularly in the automotive, aerospace and other industries.

EasyClic® 8502 - Thin

Finds wide use in Pressure Sensitive Adhesive applications and is often better than conventional closure methods, forms a high tensile closure, engages in any orientation and locks only after firm pressure. EasyClic® assures secure closure, will not rattle loose and can be opened and reclosed hundreds of times, also in high cycle life applications. EasyClic® allows repositioning and eliminates concerns about misalignment, incomplete or premature engagement. EasyClic® Reclosable Fasteners have no surface holes or protrusions.

SilverTape® 8502

These thin tapes are designed to adhere to various surfaces, such as ABS, polycarbonate, rigid PVC, phenolic resins, glass / epoxy, aluminum, galvanized steel, enameled steel, stainless steel, nickel steel, and ceramic. The thin adhesive film allows a good adhesive performance on a variety of molded parts. The adhesive has excellent UV, aging, solvent and high temperature resistance (+ 150 °C to + 260 ° Celsius). This product is in many situations virtually invisible and allows the usage of light weight, thin and small materials in many shapes and sizes.

General Information

EasyClic® 8502 - Thin

The adhesive backing has a closed cell structure which is wind and water resistant. Because the adhesive is 100% acrylic based, they will form an almost indestructible bond between the materials. This adhesive is resistant to UV, ageing, softening agents and solvents (good plasticizer resistance). The adhesive bonds immediately and offers a perfect resistance to the peel and shear loads that can affect a bond. The adhesive is very well suited to absorb dynamic loads as it is viscoelastic, can act as a sealant, forms a permanent tension free bond, and is suitable to bond many different types of synthetic materials. Our production facilities have more than 15 years of experience producing these acrylic foam tapes and are ISO 14001, ISO 9001 and ISO/TS 16949 certified.

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Structure

Tape type:	EasyClic® 8502/ Thin
Adhesive:	High Performance Acrylic
Adhesive carrier:	Conformable Closed Cell Acrylic Foam
Thickness adhesive carrier:	0,25 mm
Total Thickness:	0,82 mm
Density:	840
Description:	Transparent
Coating:	Clear
EasyClic® Color:	Transparent
Tape Color:	Transparent
EasyClic® type:	Thin
Liner:	Red PE film (paper liner is optional)

Tape Characteristics

Tape type:	EasyClic® 8502/ Thin
Peel Adhesion (ASTM D 3330):	260 N/100mm
Normal Tensile (ASTM 897):	750 kPa
Dynamic Shear:	560 kPa 20min.
Overlap (ASTM 1002):	600 kPa 24h.
Static Shear (ASTM 3654):	720 kPa
Solvent Resistance:	Excellent
UV Resistance:	Excellent
Temperature Resistance:	ca. -30 °C to + 90 °Celsius

Available Sizes

Standard Length:	25,0 m
Maximum Length:	50,0 m
Core Diameter:	1-3 inch

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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 ca. 15 °Celsius.

Cleaning

Before you begin, always check how dirty the materials that you want to bond are. If they are highly contaminated with oil or grease, clean it with an industrial cleaner (SilverTape® Cleaner) or a heptanes solution. Even when the surface is clean, use our SilverTape® Cleaner, which is a 100% Isopropanol solution. 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. Because of 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 100 kPa to allow the tape to make a perfect bond between the two materials.

Maximum Bond

The end strength will be reached much faster if you use our SilverTape® Primer no. 22. This enables the tape to reach its end bond within 5 – 20 minutes instead of taking 72 hours. On making the bond the tape without the primer normally has 50% of its final bond strength and with use of the primer this will be boosted up to 80%. If you have any questions regarding the primer, the manual or the mechanical application, please contact our technical sales team.

Storage & Shelf life

Please make sure that the tape is stored in its original packaging, in a dry place and at a temperature of preferably between 4 °C and 38 °Celsius. When the tape is stored under the right conditions it has a shelf life of 6 months.

Important Information

All technical data in this product data sheet is based on our own experience and external test institutes. These values are representative and cannot automatically be used for your own specific application. You will first need to test whether the tape is suitable for your application or project. 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. EasyClic® is a brand name of AFTC.