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Pressure Sensitive Adhesives 7909

BY

Selectus Ltd., Biddulph, Stoke-on-Trent

Pressure Sensitive Adhesive 7909 has been developed for use on a wide range of substrates, where contact adhesive and double sided adhesive tapes have had to be used to date.

The adhesive used has been carefully chosen to give good results on a wide range of substrates, including polythene, plastics (excluding plasticised P.V.C.) metals, glass, wood, etc. **It is essential that you carry out exhaustive tests to satisfy yourself of the suitability of the product for its intended use, as the adhesive has certain limitations when subjected to constant peel and shear loads, performance data are given later in this leaflet.**

GENERAL POINTS

- The adhesive is based on a synthetic rubber and resin system giving a strong instant bond to a wide variety of materials, but is not recommended as suitable for use with plasticised P.V.C.
- The adhesive contains no solvent or volatile elements, so there is no evaporation or drying problems.

STORAGE AND APPLICATION

- The conditions under which the product is stored and applied naturally affects its performance.
- In order that it shall perform to required standards it is important that it is stored in a clean, dry, well ventilated storeroom, at a reasonably constant temperature around 20°C (68°F) **Direct sunlight and ultra-violet light must be avoided.**
- The surface to be bonded to, should be clean, dry and free from dust, grease, and moisture.
- Bonds should be formed at temperatures between 15°C to 30°C (58°F to 85°F)

PRICES — see attached sheet.

GENERAL PROPERTIES

- The adhesive is a thermoplastic material so its performance is temperature dependant. For most applications the bond is maintained from 0°C to 30°C (32°F to 85°F) air temperature.
- It is not recommended for use with solvents.
- Exposure to U.V. light and direct sunlight must be avoided.
- Exposure to:—

Water	—	Good
Salt Water	—	Good
Weak Acids	—	Good
10% Caustic Soda	—	Good
Alcohol	—	Fair
U V. Light	—	Avoid
Mineral Oil	—	Good

- When applying to anodised aluminium, for a good bond ensure that the aluminium surface is free from scratches, clean and dry (no condensation). At temperatures below 5°C initial tack is reduced but bond strength will improve as temperature rises.
- Providing the bond has been formed in clean, dry conditions, immersion in water should not result in loss of adhesion value.
- Always cut to length before removing backing strip.
- The adhesive is not intended for removal and re-application.
- Always clean metal surfaces
- Galvanized metal surfaces must be cleaned with a mordant solution.

TECHNICAL DATA

- **Shear Strength**, when bonded to glass, to a force of over 9kg/sq cm (140 p s i.)
- **Dynamic Peel Strength**, when bonded to polythene, tested to a force of 4.5kg/c.m width on a 180° peel
- **Static Peel**, when bonded to glass, and subjected to a peeling force of 1kg at 45°, has a rate of peel of 5mm per hour.

WARRANTY

ALL INFORMATION, RECOMMENDATIONS AND DESCRIPTIVE MATERIAL ABOUT THE PRODUCT ARE BASED UPON RESEARCH AND BELIEVED TO BE RELIABLE, BUT DO NOT CONSTITUTE A WARRANTY, ALL PRESSURE SENSITIVE ADHESIVE 7909 PRODUCTS ARE SOLD WITH THE UNDERSTANDING THAT PURCHASER WILL INDEPENDENTLY DETERMINE THE SUITABILITY OF THE MATERIAL FOR THEIR OWN PURPOSE. NO SALESMAN, REPRESENTATIVE OR AGENT, IS AUTHORISED TO GIVE ANY WARRANTY, GUARANTEE, OR MAKE ANY REPRESENTATION CONTRARY TO THE FOREGOING

FURTHER INFORMATION

FROM:

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STANDARD SPECIFICATIONS

Quality
STANDARD VELCRO®

Material
NYLON 6.6

Shear Strength (Lengthwise)
0.84 KG/CM²

Peel Strength (Lengthwise)
0.21 KG/CM WIDTH

Tension/Latching
0.42 KG/CM²

No. of Openings/Closings
IN EXCESS OF 5,000

Temp Range Low – High
- 70°F/200°F
- 56°C/93°C

Available Widths (mm)
10, 15, 20, 25, 30, 50, 100

Available Colours
22

Qualities Available

- SEWING
- PRESSURE SENSITIVE ADHESIVE
- WELDING (U.F. & R.F.)
- SOLVENT REACTIVATED

VERSATILE VELCRO® THE HOOK AND LOOP FASTENER



The unique properties of 'Velcro' hook and loop fastener make it the first choice fastening in many industries.

'Velcro' fastener has scaled 'Everest' and proved itself to be the ideal fastener for many clothing applications.

'Velcro' reached the heights of versatility when it was used by N.A.S.A. in the space and shuttle programmes.

Virtually all passenger aircraft use 'Velcro' fastener on headrests, seating etc.

The automotive and transport industries are also sticking to 'Velcro' for fastenings on carpets,

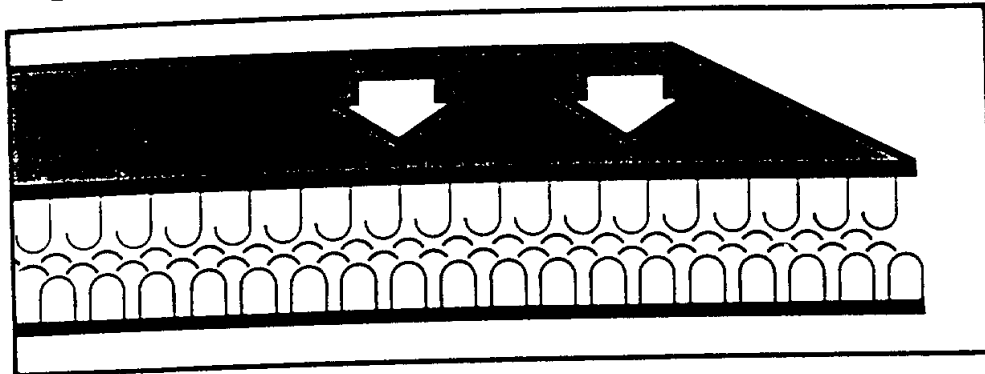
covers, seating, headliners, trim-panels and in many more ways to maintain modern production.

Physiotherapists, nurses and hospital technicians are finding 'Velcro' fastener the ideal way of overcoming problems with handicapped patients and in remedial aids.

The shoe, furniture and clothing industries are welcoming 'Velcro' fastener as an innovative fastening for their products.

There is no end to the versatility of 'Velcro' fastener, no matter what industry you may be involved in, your fastening problems may be solved with 'Velcro' hook and loop fastener.

The VELCRO® STORY



Velcro' is the registered Trade Mark of the original hook and loop fastener. It was created in Switzerland where its inventor whilst out hunting one day, took more than a passing interest in how burdock burrs clung to his clothing. It was nature therefore that played a part in the creation of the most versatile of modern fastenings!

Velcro' fastener consists of two nylon tapes, one covered in thousands of tiny loops, the other in thousands of tiny hooks. When pressed together the hooks grip the loops forming a tight, secure closure capable of resisting a lateral pull greater than anything likely to be encountered in normal use. Yet, to separate the strips you simply peel them apart from either end.

Velcro', hook and loop fastener is woven entirely from nylon and can be easily cut to any length and shape with a pair of scissors without fraying. Ideally, it is attached by sewing, but it can be stapled or glued to other substrates where this is not possible. It is available also with a strong pressure sensitive adhesive backing for sticking onto glass, tiles and other smooth, firm surfaces. **V**elcro' fastener can be dry-cleaned, washed and ironed (in closed position) and since it has no metal parts there is no danger of rusting, jamming or in any other way disfiguring garments after washing. It is also ideal as a restraining strap when the hook and loop components are permanently joined back to back.

Laboratory tests have shown that **V**elcro' hook and loop fastener, even after 5000 openings and closings retains its dependability. The fastener is available in 10, 15, 20, 25, 30, 50 and 100mm widths and in a choice of 22 colours. In addition, there is a range of specialist **V**elcro' fasteners for industrial use.

Where an application calls for one component to be adhered to a static surface, such as is the case in many furnishing uses, the hook component should be selected for this purpose. In this way the loop component becomes the one that is on the removable part that may require washing. There is a comprehensive leaflet available on suitable adhesives and you are invited to take advantage of the technical service available wherever a new or difficult usage is contemplated.

For advice of any kind, contact the **V**elcro' Technical Services Dept, Selectus Ltd, The Uplands, Biddulph, Stoke-on-Trent, ST8 7RH.

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