

# *Adhesive Specialities*

**An ISO 9001:2018 Certified Company**

**Manufacturer of Specialized adhesive tapes and die cuts**

*Tapes for Aerospace Industry*

**Adhesive Specialities** was a dream incorporated in 2001 by like-minded people to become a preferred manufacturer of Sun Brand Pressure Sensitive Adhesive Tapes with a 100% commitment to quality and reliability.

The journey over the years has helped us excel in offering customized solutions according to industry and customer-specific needs. The company's 60,000 sq.ft. constructed areas are an ISO certified and ROHS compliant facility equipped with three coating lines, auto rewinding & slitting machines which are well-supported with the state-of-the-art testing and R&D laboratory, die-cut making section, inhouse adhesive making facility and a well-trained work force.

Adhesive Specialities offers a wide range of high performance bonding and sealing solutions, some of which can be seen below.

- In-flight aircraft monitoring equipment
- HVAC gaskets and seals
- Flexible circuit bonding
- Environmental sealing of helicopter blade tracking monitors
- High performance bonding of cabin interior and galley equipment
- Splicing flame retardant panels to seal cargo area
- Bonding windows to mouldings in entertainment consoles, using flame retardant materials
- Reclosable fasteners for service access panels
- High performance Plasma Spray & HVOF masking tapes
- Vacuum Bagging tapes for securing release films during composite manufacture
- Glasscloth tapes for high temperature Thermal Blanket sealing.

# Masking Tape General Purpose and High Temperature



## Applications and features:

- ❖ Adhesive Specialities offers a wide range of choice in crepe paper masking tapes.
- ❖ Temperature range 60 C to 180 C celc
- ❖ General purpose
- ❖ Industrial applications.
- ❖ Automotive industry.
- ❖ Chemical resistant & high temperature masking solutions.
- ❖ Masking for indoor painting.
- ❖ Masking in furniture industry.

# Polyimide Tape

## Applications and features:

- ❖ Wide temperature range as low as  $-269^{\circ}\text{C}$  and as high as  $400\text{ C}$
- ❖ Excellent dielectric strength
- ❖ Remove cleanly leaving no residue
- ❖ Very high temperature mask during powder coating, anodizing, etching applications.
- ❖ Ideal for wave soldering
- ❖ Used in automobile industry for wrapping switches, diaphragms, manifolds, sensors and coils in seat heaters.
- ❖ Used to mask circuit board
- ❖ In circuit board construction
- ❖ In aerospace industry for insulation of aircraft and spacecraft wings.
- ❖ Very high temperature mask during powder coating & anodizing applications.

## Applications and features:

- ❖ In electrical applications where static is an issue.
- ❖ In Fiber Optics Cable
- ❖ In semiconductor manufacturing
- ❖ In 3D printing
- ❖ Available with silicon and acrylic adhesives.
- ❖ Thickness: 1mil ,2mil film
- ❖ Available in in die cut and roll forms



# Polyester Tape-Powder Coating Tape

## Application and Features:

- ❖ High grade Silicon adhesive
- ❖ Moisture resistant
- ❖ Chemicals and solvents resistant
- ❖ Abrasion resistant
- ❖ Good shear resistant
- ❖ Outstanding dielectric strength
- ❖ Clean removal without residue
- ❖ Outstanding dielectric strength
- ❖ High tack
- ❖ Excellent ageing and weathering properties
- ❖ Used as high Temperature Masking during powder coating applications, PCB manufacturing, chemical etching

## Application and features:

- ❖ In aerospace field for flash breaker
- ❖ Splicing of silicon coated paper
- ❖ Available in Green, Blue and Red Colors
- ❖ Thickness:1 and 2mil



# Aluminum Foil Tape

Adhesive Specialities provides wide range of Aluminum Foil Tapes with various adhesives like hotmelt, solvent, silicone & acrylic emulsion.



## Applications and features:

- ❖ High & low temperature resistance.
- ❖ Used for general purpose holding, patching, sealing application – indoor & outdoor.
- ❖ Suitable for joining of foil faced fiberglass or duct board joints.
- ❖ Ideal for joining & sealing in HVAC application.
- ❖ Closing of rigid air duct insulation & shafts.
- ❖ EMI/RFI shielding for motors, cables, cabinets, antennae & components (splatter masking).
- ❖ Available in 30 mic, 50 mic, 100 mic & 150 mic thicknesses.
- ❖ With and without liner

# Die Cuts

## Applications:

- ❖ EMI Shielding
- ❖ Flex Connectors
- ❖ Thermal Management
- ❖ Foil tapes
- ❖ Masking Discs
- ❖ Solar panel Tapes
- ❖ Electroplating, anodizing
- ❖ Polyimide die cuts
- ❖ Sand blast masking
- ❖ Masking during paint applications
- ❖ Antistatic masking
- ❖ Die cut frames
- ❖ Speciality shapes
- ❖ Polyester die cuts
- ❖ Vin Plate masking
- ❖ Insulated pre forms
- ❖ Powder coat masking
- ❖ Foam die cuts
- ❖ Copper pre forms

# Glass Cloth Tape

Glass Cloth backing is coated with high grade adhesives like acrylic, thermosetting rubber and silicone adhesives.



## Applications and features:

- ❖ Provides F or H class insulation.
- ❖ High temperature resistant ranging from 150 °C to 400 °C.
- ❖ High adhesion & abrasion resistant.
- ❖ Flame retardant property.
- ❖ High mechanical strength.
- ❖ Permanent sealing of high temperature ducts & chambers.
- ❖ Used as high temperature masking.
- ❖ Used in Aircraft window sealing & many other uses.



# Cross Filament Tape



## Applications and features:

- ❖ Reinforced Polyester Film with pressure sensitive adhesive has very high tensile strength.
- ❖ Structuring of umbilical cord for marine probe
- ❖ Bending of tubes and bars
- ❖ Insulation of oil transformers
- ❖ For Holding of white goods
- ❖ General applications where tensile strength and good adhesion are required.
- ❖ Reinforcement and closing of cables
- ❖ Heavy duty packaging, strapping
- ❖ Closing of metal coils

# Copper Foil Tape

## Applications and features:

- ❖ Copper foil tape is a flexible copper foil coated with high conductive adhesive & comes with release liner.
- ❖ Ideal for EMI/RFI shielding & as well as shielding of all non-conductive materials & electrical grounding.
- ❖ Excellent for soldering application & for anti-static floors (ESD floors).
- ❖ Can be used as electrical connection between surfaces & cable shielding.
- ❖ Available in roll & die-cut forms



# Acrylic Foam Tape

## Features and applications:

- ❖ Bonding of similar and dissimilar surfaces
- ❖ Suitable for indoor and outdoor applications
- ❖ Alternative to screws, reverts, nails or any liquid adhesive
- ❖ Designed for high and low surface energy bonding
- ❖ Mounting heat sink, fan or heat spreader to IC packages & components.
- ❖ Special Primer is available for better bonding
- ❖ Available color and thickness: Clear -0.5mm and 1.0m  
Gray-0.8mm,1.2mm,1.5mm and 2mm  
Black-0,4mm



# Double Sided Cotton Cloth Tape

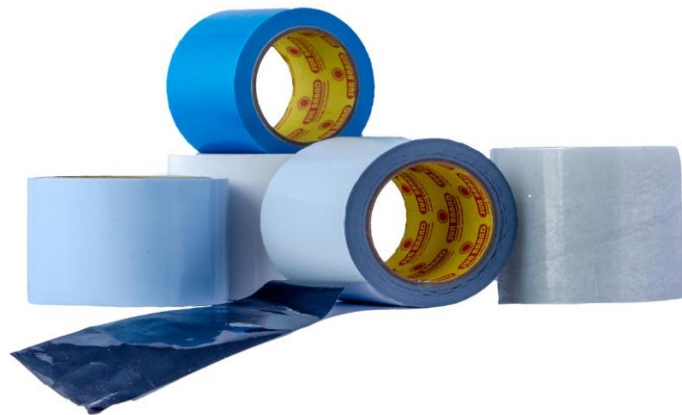
## Applications and features:

- ❖ Used as plate mounting in printing machine
- ❖ Excellent for flexo printing of corrugated board
- ❖ Suitable for joining two dissimilar surfaces such as signage boards
- ❖ High tack
- ❖ Good adhesion
- ❖ Ideal for Carpet fixing



# Surface Protection Tape

Adhesive Specialities offers a wide range of surface protection tapes in order to protect surfaces from scratches, damages, dust and dirt. We can make SPT in a wide variety of adhesives like Solvent acrylic, Rubber based and Acrylic Emulsion.



## Applications and features:

- ❖ Suitable for many types of the surface (Metal, glass, plastic, Optic lenses, decorative laminate, stone, carpet, coated surface like auto parts etc.)
- ❖ Works on different texture of the surface (Smooth / Glossy, Matte / Embossed).
- ❖ Range of backing material (LLDPE, PET,PVC, PE).
- ❖ External factors which might affect the surface protection tapes (UV, sunlight exposure, extreme temperatures, chemical exposure).
- ❖ Duration for which protection is required.
- ❖ Reason for protection of surface (abrasion, smudging, scratches).
- ❖ Residue free.
- ❖ . Water Resistant.
- ❖ Printing can be done as per request

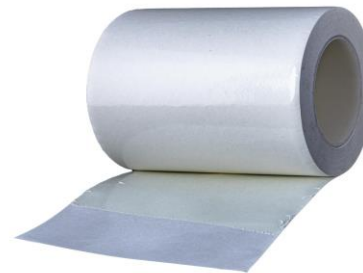
# Transfer Tape

We have 50 and 130mic with acrylic adhesive, which is ideally used for commercial graphics, sticker, foam and aerospace industry

Our 100mic transfer tape is also known as Thermally conductive tapes are designed to provide preferential heat-transfer between heat-generating electronic components and cooling devices such as fans, heat sinks or heat spreaders.

## Application and features:

- ❖ Used LED and it is ideal for conducting heat from metals and plastics of heat radiation units
- ❖ Good thermal transfer
- ❖ High mechanical strength
- ❖ Improved surface wet-out for rough surface/LSE substrates
- ❖ Excellent shock performance
- ❖ Ideal for thin bonding applications
- ❖ Available thickness: 50mic and 130mics



# Vacuum Bag Sealing Tape

Adhesive Specialities Vacuum Bag Sealing Tapes are multi-purpose tapes designed to create strong and reliable seals.

## Applications and features:

- ❖ It is compatible with most bagging films and it is best choice for use on composites tools.
- ❖ They can be used to plug leaks and tears in a vacuum bag that can develop during the vacuum bagging process.
- ❖ Application Temperature Range: 5 °C to 45 °C.
- ❖ Service Temperature Range: from 120 °C to 204 °C.



# Wire Harness Tape

## Application and features:

- ❖ Wire Harness Tape is electrical self-extinguishing soft PVC tape that uses an aggressive pressure sensitive rubber-based adhesive system.
- ❖ It has been designed for use where a recognised specification or international standard is required and where environmental safety is a concern.
- ❖ Good resistance to abrasion, corrosion and moisture.
- ❖ High dielectric strength and good mechanical protection.
- ❖ Outstanding conformability.
- ❖ Flame retardant.
- ❖ Tape can be applied at low temperature (till  $-10^{\circ}\text{C}$ ).
- ❖ Hand application.
- ❖ Primary electrical insulation.
- ❖ Harnessing applications for the Automotive Industries.
- ❖ Protection for low and medium voltage cable splices

