

Specialty Tape Advantage Solutions

HIGH PERFORMANCE TAPES

EXCELLENT SERVICE

COMMITTED TO YOUR SUCCESS

CONNECTED TO YOU

GLOBAL CAPABILITIES

Specialty Tape Industrial




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 = UL-969 Recognized Component (file MH27536)

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Global Leader

Avery Dennison is a Fortune 500 company with over \$ 6.3 billion net sales in 2007, employing over 30,000 individuals in 60 countries worldwide. Avery Dennison is a global leader in pressure-sensitive labelling materials, graphic films and materials, retail tag, ticketing and branding systems, and office products.

Tapes are produced and sold through the **Specialty Tape Division** – a world-class operation specialising in pressure-sensitive adhesive tapes for industrial, medical and consumer market segments.

Introducing Advantage Solutions

Specialty Tape is proud to introduce **Advantage Solutions**, a programme designed to offer a broad portfolio of high performance tapes to converters, fabricators and component manufacturers.

HIGH PERFORMANCE TAPES

Avery Dennison offers a broad set of **high performance tapes...**

- Catalogue with over 100 tapes
- Using a broad technology base
- Covering a wide range of applications
- Additional custom products available

COMMITTED TO YOUR SUCCESS

... and being committed to delivering **value to your business.**

- Focus on partnership
- Offering special programmes
- Engineering support to develop new products for new applications
- Clear business model focusing on materials supply only

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- Next day product samples
- Same day order confirmation
- Excellent technical assistance and applications support
- Product training

ADVANTAGE SOLUTIONS

CONNECTED TO YOU

... making it **easy** to do business...

- Standard products whenever possible
- Catalogue allowing easy product selection
- Technical data sheets and complete information online

GLOBAL CAPABILITIES

... by leveraging **global capabilities**...

- Facilities in North America, Europe, Asia and South America
- Wide range of coat weights and widths
- Excellent coating quality and consistency
- Over 100 scientists throughout the regions, in the Avery Dennison Research Center, and in the Neal Research Center.
- ISO 9001:2000, ISO TS 16949 (Europe), ISO.IEC 17025:2005 laboratory certification (North America)

Where Can You Find Us

Avery Dennison Specialty Tape has over 1,000 employees around the world, and nine manufacturing plants, serving manufacturing companies and customers worldwide. Regional headquarters are located in:



Selecting the Right Tape for Your Needs

When you are looking for a Pressure-Sensitive Adhesive (PSA), many factors come into play. Specific characteristics of the materials, environmental factors, application conditions, cost concerns, and the required bonding performance all need to be considered.

The following step-by-step guide will assist you in selecting the best Avery Dennison PSA for your application. If you can't find the tape you are looking for, please contact our specialists to help you make the final selection.



1. Performance Requirements

The first step is to exactly define the type of substrates, the environmental conditions and the required bonding performance.

1.1. Type of Substrates

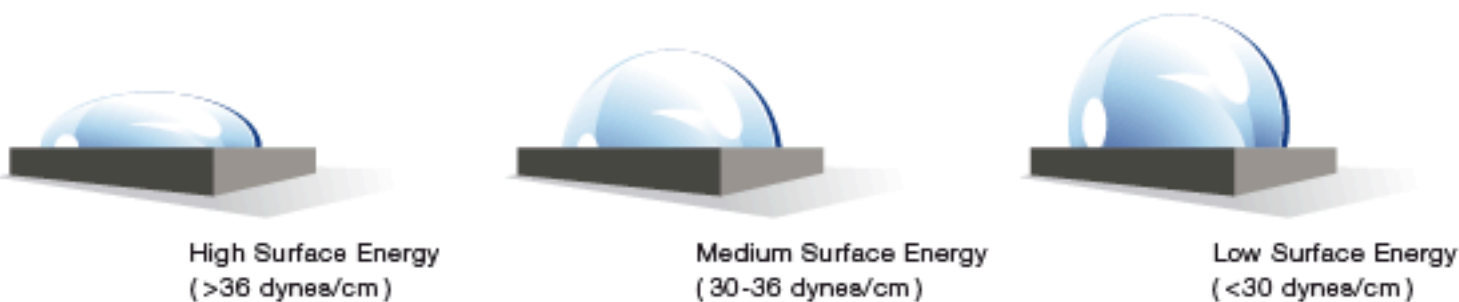
In most applications, two substrates are involved. One will bond with the unwind adhesive during the converting process and is called the "lamination" substrate. The other will bond with the liner side adhesive and is called the "mounting" substrate. Substrates come in many different forms and substances – however, a few characteristics are key:

1.1.1. Surface Energy

The surface energy of a substrate will affect the adhesive's ability to 'wet out' or spread over the substrate. Low Surface Energy (LSE) materials resist adhesive wet out, making bonding more difficult. However, high surface energy materials allow excellent wet out and provide the best adhesion.

For example, picture an unwaxed car when it rains. The water spreads out (or wets out) on the car creating puddles. In this case, the car's surface is displaying high surface energy. However, a waxed car will cause water to bead up because the car's surface is displaying LSE characteristics. Since pressure-sensitive adhesives bond well when they can wet out, they bond well to high surface energy materials (the unwaxed car) but not so well to LSE materials (the waxed car).

Rubber based and modified acrylic adhesives typically offer better adhesion to LSE substrates, as they are softer and flow better. Some materials will require corona treating, primers or top coating to promote better adhesion.



1.1.2. Surface Texture

The texture of a substrate can affect the adhesive bond strength. Textured materials do not allow 100 percent contact of the adhesive to the substrate (less contact + less bonding area = lower bond strength).

Performance improvements to heavily textured materials can be achieved with proper product selection:

- Heavier adhesive mass allows for more flow into material
- Softer adhesives have better flow properties
- A more aggressive adhesive maximises bond strength at contact areas
- A more flexible tape conforms to texture.



1.1.3. Surface Contamination

Surface contamination prevents effective bonding. There are many types of surface contamination - some are not visible to the eye, but can be identified analytically. Simply cleaning the surface (washing or flame treating) will ensure an effective bond.

The surface may be contaminated if:

- The presence of 'loose' material on the surface of the substrate is noticed
- Material feels slippery, greasy and/or slimy
- All surfaces tested appear to have the same poor bond and the adhesive feels non-tacky after being removed from the substrate.

Common contaminants include:

- Dust, anti-static agents, moisture, plasticisers and mould release agents
- Silicone (from other release liners), oils, anti-block coatings and powders.

1.1.4. Surface Contour

The contour of the substrate will influence both the adhesive selection and the product selection. For conformability around irregular angles, materials with higher flexibility are recommended. Regardless of the adhesive's strength, it is virtually impossible for an adhesive to overcome continued stress from a rigid material trying to return to its original form (memory).

- Consider a conformable tape, such as a transfer tape or a double coated tape with a flexible carrier (tissue or non woven)
- Consider adding stress relief to a converted part (e.g. scores, perforations).

1.2. Environmental Conditions

Several environmental factors can affect the performance of a tape:

1.2.1. Temperature During Application

Temperature of the substrate and/or the adhesive when applied or laminated.
General minimum temperature recommendations are 10°C.

1.2.2. Temperature During Service

Temperatures that the adhesive is exposed to during the normal service life of the finished product.

General recommended ranges are -40 to 180°C for (UV) acrylic based adhesives, -25 to 110°C for rubber based adhesives and -80 to 250°C for silicone based adhesives.

1.2.3. Humidity

Duration and intensity of moisture exposure.

1.2.4. Outdoor Conditions

From indoor to extreme weathering exposure.

1.2.5. Exposure to Chemicals

Including solvents, chemicals or fuels.

1.2.6. UV Exposure

Direct or indirect.

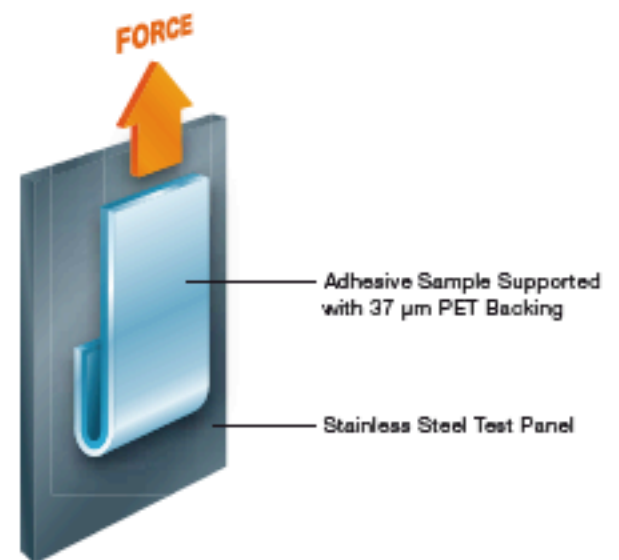
1.3. Required Bond Strength

Adhesives have many performance properties, which are specified and measured depending on the end application. Three common performance properties include adhesion, tack and cohesion. These properties and the recommended method of measurement are detailed below.

1.3.1. Adhesion

Adhesion is the molecular force of attraction or bond between the adhesive and the surface it is in contact with. The strength of the attraction or bond is determined by the material's surface energy and the chemical make-up of the adhesive.

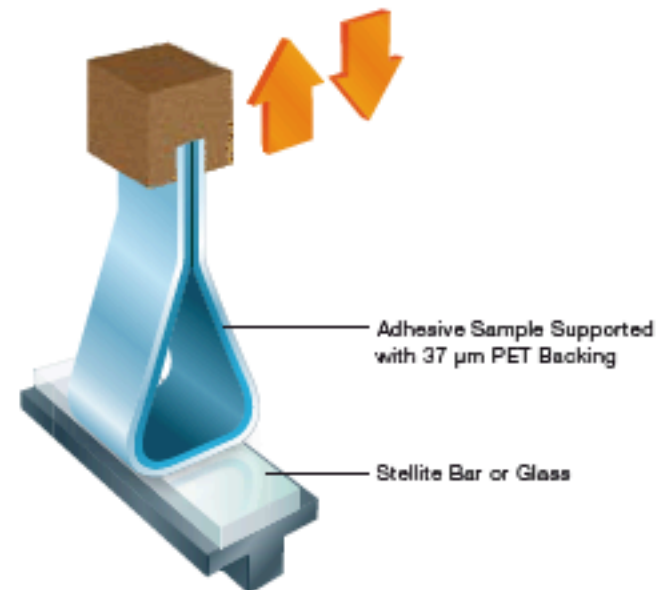
A pressure-sensitive adhesive's measure of performance is expressed in N/25 mm or imperial equivalents as the tape is pulled at a 180 degree angle, 300 mm per minute, usually off a polished stainless steel panel. A 90 degree version of this test is used when testing foam carrier tape adhesion.



1.3.2. Tack

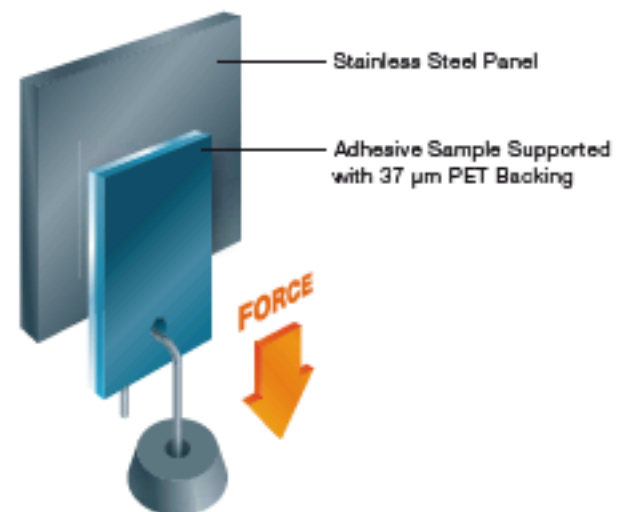
Tack is the property of a pressure-sensitive adhesive that allows it to adhere to a surface with very light pressure and a minimum contact time (often referred to as "quick stick"). It also refers to the ability of the adhesive to quickly "wet out" on the surface. During testing, no pressure is applied to the tape. Instead a loop of tape is lowered to a stainless steel or glass surface until contact is made.

The tape loop is pulled back at 300 mm per minute.



1.3.3. Cohesion

Cohesion, or cohesive strength, refers to the internal strength of an adhesive and its ability to resist splitting or slippage caused by external shear forces. Cohesion is measured by its resistance to forces parallel to the surface. A standard area of tape is applied to a vertical test panel; a standard weight is suspended on the bottom of the portion of the supported tape. Measurement is given in minutes until failure and/or distance slipped. Failure can be forced by conducting this test in an oven that gradually and consistently rises in temperature. The temperature at which the tape fails is called the Shear Adhesion Failure Temperature (SAFT). Shear can also be measured in a Dynamic test (tensile tester-clamp moving 2 mm/min).



2. Tape Technologies

Tapes come in many different forms and use many different adhesive technologies, to serve a variety of applications. When selecting a tape it is key to select the best components and the way they are constructed.

2.1. PSA Tape Components

PSA tapes can consist of four basic components:

- **Adhesive** - Component that provides adhesion to the substrate
- **Carrier** - Component on which the adhesive coating is applied
- **Release Coating** - Applied to the release liner and cured. Allows adhesive to separate from the liner without contaminating the adhesive. This component plays a major part in the functionality of a finished PSA product
- **(Release Coated) Liner** - Component plays a crucial role in the production, processing and application of the PSA.

2.1.1. Adhesive Chemistries and Characteristics

Each adhesive has its unique applications. Here is an Avery Dennison reference guide to basic adhesive chemistries and a summary of typical performance characteristics.

Adhesive Chemistries	Price	Adhesion	Low Surface Energy Bonding	Tack	Shear	Temperature Resistance	Humidity Resistance	Solvent / Chemical Resistance	UV Resistance
Rubber Based	○	●	●	●	●	○	○	○	○
UHA Rubber Based	●	●	●	●	●	○	○	○	○
Acrylic Based	○	○	○	○	●	○	●	●	●
Modified Acrylic Based	●	●	●	○	○	○	○	○	○
UHA Acrylic Based	●	●	○	○	●	●	●	●	●
HPA Based	●	○	○	○	●	○	○	●	●
Silicone Based	●	○	○	○	●	●	●	●	●
XHA Based	●	●	●	●	●	○	○	○	●

○ Low ○ Medium-Low ○ Medium ● Medium-High ● High

2.1.2. Carrier

Typical carrier materials include tissue, non woven, polypropylene, polyester, scrim, and foam. Below is a summary of carriers and their characteristics.

Carrier	Characteristics	Convertibility
Tissue	Increased adhesive caliper, tearable	○
Non Woven	Better internal strength compared to tissue, water resistant, tearable	●
Polypropylene	More flexible compared to polyester, water barrier	●
Polyester	Chemical barrier, improved internal strength versus polypropylene	●
Scrim	Reinforced substrate (no stretch)	○
Foam	Used for gap filling, mounting	●


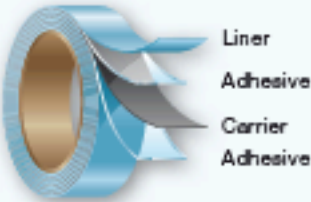
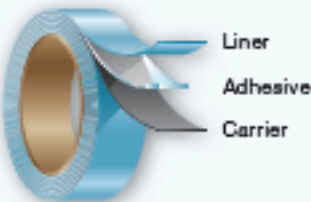

2.1.3. Liners

Avery Dennison offers paper and film release liners in a number of different constructions and weights to meet various process requirements.

Liner Type		High Tensile Strength	Humidity Resistance	Rotary Die Cutting	Kiss Cutting
Paper	Glassine			✓	✓
	Polyethylene Protected Paper (PPP)		✓	✓	✓
	Polycoated Kraft		✓	✓	✓
	Densified Kraft	✓	✓	✓	✓
	Claycoated Kraft		✓	✓	✓
Film	Polyester (PET)	✓	✓	✓	✓
	Low Density Polyethylene (LDPE)	✓	✓		
	Polyethylene (PE)	✓	✓		

2.2. PSA Constructions

The various PSA tape components are combined and supplied in the following basic constructions:

<p>Transfer Tape</p>  <p>Liner Adhesive</p>	<p>A film of unsupported adhesive is coated directly onto a siliconised release liner. The release liner is coated with silicone on both sides to ensure that the tape unwinds easily and can be laminated to various substrates.</p> <p>Double lined transfer tape constructions may be offered.</p> <ul style="list-style-type: none"> • Offers superior conformability • Ideal for nameplate mounting and foam bonding. 	<p>Double Coated</p>  <p>Liner Adhesive Carrier Adhesive</p>	<p>The adhesive is coated on both sides of a carrier material. This construction is provided on a liner coated on both sides with silicone. Double lined, double coated constructions may be offered.</p> <ul style="list-style-type: none"> • Offers improved internal strength • Greater dimensional stability, easier converting • Easily slit into narrow rolls • Adds support to otherwise stretchy materials.
<p>Single Coated</p>  <p>Liner Adhesive Carrier</p>	<p>The adhesive is coated on one side of a carrier. A release liner coated on one side with silicone protects the adhesive.</p> <ul style="list-style-type: none"> • Potential label stock • Foil insulation tapes. 	<p>Self Wound</p>  <p>Facestock Adhesive</p>	<p>The adhesive is coated on one side of a carrier. The other side of the carrier is generally coated with silicone to enable the tape to unwind easily.</p> <ul style="list-style-type: none"> • Provides wrap around sealing • Acts as closure system • Potential label stock • Can provide moisture vapour barrier.

3. Tape Selection Guide

By matching application requirements against available tape technologies, you can put together the best tape.

3.1. Selecting the Adhesive

First select an adhesive that fits all your requirements.

		Least Demanding	Medium	Most Demanding
Surface	Surface Energy	> 36 dynes/cm	30-36 dynes/cm	< 30 dynes/cm
		All adhesives	Rubber based, modified acrylic, silicone	Rubber based, silicone, UHA rubber, XHA
	Texture - Level of Embossing	Roughness (Ra) < 45 µm	Roughness (Ra) ~ 100 µm	Roughness (Ra) > 250 µm
		Adhesive weight < 40 g/m ²	Adhesive weight 40-65 g/m ²	Adhesive weight > 65 g/m ²
	Contour	Flat	Curved, diameter > 1000 mm	Curved, diameter < 500 mm
		All adhesives	High coatweight acrylic, modified acrylic, rubber, AFT, XHA	AFT, XHA
Environmental Conditions	Temperature during Application	Above +10°C	Between -5 and +10°C	Below -5°C
		All adhesives	Pure acrylic, modified acrylic, Ecobond acrylic, silicone	Ecobond acrylic, silicone
	Temperature during Service	Up to +70°C	Up to +130°C	Above +150°C
		All adhesives	Modified acrylic, pure acrylic, AFT, XHA, UHA rubber, UHA acrylic, silicone	UHA acrylic, silicone
	Humidity	Up to 60% RH	Between 60 and 80% RH	Above 95% RH
		All adhesives	Solvent modified acrylic, solvent rubber, silicone	Pure acrylic, UHA acrylic, XHA
	Outdoor Conditions	Indoor Usage	Limited Outdoor Exposure	Outdoor Weathering
		All adhesives	Modified acrylic, pure acrylic, UHA acrylic, XHA, silicone	Pure acrylic, UHA acrylic, XHA, silicone
	Chemical Exposure	None	Some Exposure	Full, Long Term Immersion
		All adhesives	Modified acrylic, UHA rubber, AFT, XHA, pure acrylic, UHA acrylic, silicone	AFT, XHA, pure acrylic, UHA acrylic, silicone
	UV Exposure	Completely Shielded from UV	Some Indirect Exposure	Full Direct Exposure
		All adhesives	Modified acrylic, UHA rubber, AFT, XHA, pure acrylic, UHA acrylic, silicone	AFT, XHA, pure acrylic, UHA acrylic, silicone

		Least Demanding	Medium	Most Demanding
Required Bond Strength	Immediate Adhesion	Finat Tack < 10 N/25 mm	Finat Tack 10 - 40 N/25 mm	Finat Tack > 40 N/25 mm
		All adhesives, except FT 310 and FT 7327 (removable side)	Pure acrylic, modified acrylic, silicone, rubber, UHA rubber, XHA, AFT, UHA acrylic	Rubber, UHA rubber, XHA
	Ultimate Adhesion	180° Peel Adhesion after 72 hours < 10 N/25 mm	180° Peel Adhesion after 72 hours 10 - 50 N/25 mm	180° Peel Adhesion after 72 hours > 50 N/25 mm
		All adhesives, except FT 310 and FT 7327	Rubber, pure acrylic, modified acrylic, silicone, UHA rubber, XHA, AFT, UHA acrylic	UHA rubber, XHA, AFT
	Cohesive Strength	Dynamic Shear Resistance < 100 N/625mm ²	Dynamic Shear Resistance 100 - 700 N/625mm ²	Dynamic Shear Resistance > 700 N/625mm ²
		Rubber	Pure acrylic, modified acrylic, silicone, XHA, AFT, UHA rubber, UHA acrylic	UHA rubber, UHA acrylic
Holding Power	T-block Resistance < 100 N/625mm ²	T-block Resistance 100 - 700 N/625mm ²	T-block Resistance > 700 N/625mm ²	
	Pure acrylic, modified acrylic, silicone	Rubber, XHA, AFT, UHA rubber, UHA acrylic	UHA rubber, XHA, AFT	
Conversion	Lamination Temperature on Open Cell Structure	Room Temperature	Between Room Temperature and 100°C	Above 100°C
		Rubber, modified acrylic	Pure acrylic	UHA rubber, UHA acrylic, XHA, AFT, silicone
	Lamination Temperature on Closed Cell Structure	Room Temperature	Between Room Temperature and 100°C	Above 100°C
		All adhesives	-	-
	Lamination Pressure	Low	Medium	High
		Rubber, modified acrylic	Rubber, modified acrylic, pure acrylic, XHA, UHA acrylic, UHA rubber, AFT	Silicone

3.2. Selecting the Tape Construction

The next step is to define the tape construction. You must choose between a transfer tape and a double coated construction. Transfer tapes are less costly and more conformable. Double coated tapes have higher strength and stiffness, and can be used as a gap-filling or barrier. In addition, double coated tapes are easier to slit. When cutting through the adhesive, there is always a risk of edge picking when using a transfer tape. To determine the most appropriate carrier, use the table under "carrier" (2.1.2. Carrier).

3.3. Selecting the Liner

Finally, to select the liner, use the selection chart under "liner" (2.1.3. Liners).

3.4. Application Conditions

When applying PSA tapes, keep the following conditions in mind:

- Bonding surface must be clean, dry and free of all grease and oil contaminants
- PSAs require a minimum of 100g/cm² to secure most bonds
- Minimum application temperature above 10°C
- Heat lamination improves surface contact area and decreases wet out time
- Adhesion builds up to reach maximum adhesion level up to 72 hours after application.

Transfer Tape



Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

Rubber Based Adhesives

FT 165	Non staining fingerlifted transfer tape designed for application on envelopes and continuous stationary. The adhesive combines high tack with a very high shear.												
	30	White Glassine, 58	30	-	-	-	●	●	●	●	●	○	65
FT 131	Economical transfer tape designed for adhesion on a wide range a substrates including PE, PP,...												
	30	White Glassine, 58	30	-	-	-	●	●	○	●	○	●	55
FT 21002	Versatile, high temperature resistant, rubber based transfer tape protected by a high strength easy release liner allowing easy conversion of even the lowest internal strength fibres, fabrics,...												
NEW	40	White Glassine, 116	40	-	-	-	●	●	○	●	●	●	110
FT 167	Rubber based transfer tape designed for immediate and very high adhesion on low surface energy materials like (foamed) PE and PP.												
	60	White Glassine, 70	60	-	-	-	●	●	○	●	○	●	55
FT 117	High tack rubber based adhesive especially designed for foamed and non foamed EPDM and natural rubbers.												
	60	White Glassine, 70	60	-	-	-	●	●	●	●	●	●	65
FT 107	Very versatile adhesive used for a wide range of foam bonding applications by which temperatures exceeding 110°C and easy application are required.												
	60	Blue/Green Glassine, 85	60	-	-	-	●	●	○	●	●	●	110
FT 168	High coatweight soft rubber based transfer tape designed for immediate adhesion on bubbled foams, regenerated felts, fabrics...												
	130	Havana Glassine, 75	130	-	-	-	●	●	○	●	○	●	55


○ Low ● Medium-Low ● Medium ● Medium-High ● High

Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

UHA™ Rubber Based Adhesives (Ultra High Adhesion)

UHA 1198	Designed for applications requiring high adhesion, tack and shear to low surface energy substrates such as PP and PE. Provides excellent adhesion to textured materials.											
200	Densified Kraft, 117	200	-	-	-	●	●	●	●	●	○	110

Pure Acrylic Based Adhesives

FT Y1092	Low coatweight transfer tape offering perfect UV resistance, high temperature resistance and very good chemical resistance. Especially used in demanding security applications and when plasticiser resistance is required.											
25	Havana Glassine, 75	25	-	-	-	●	○	●	●	●	○	140
FT 109	Versatile transfer tape offering a perfect balance between tack, shear and temperature resistance, combined with a perfect UV stability and very good plasticiser resistance. Can also be used when a high degree of optical clarity is required.											
60	Havana Glassine, 75	60	-	-	-	●	○	●	●	●	●	140
FT 2150	Environmentally friendly adhesive ideally suited, thanks to its low fogging properties, for automotive interior component mounting. Product has been finetuned for seat heating fixation by which different kinds of fabrics are mounted on release agent treated moulded seats.											
	60	White Glassine, 85	60	-	-	-	●	●	●	●	●	130

○ Low
● Medium-Low
● Medium
● Medium-High
● High

Transfer Tape



Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

Modified Acrylic Based Adhesives

FT 2173	Offers good balance in adhesion, shear and temperature resistance. Designed for mounting and high speed conversion of security labels.												
	22	Clear PET, 36	22	-	-	-	●	●	●	●	●	○	130
FT 720 DLW	Especially developed for buried graphic label applications where the inside of the label facestock is printed and the adhesive is laminated to the face.												
NEW	33	Densified Kraft, 81	33	-	-	Clear PET, 25	●	●	●	●	●	○	90
FT 2137	Offers good balance in adhesion shear and temperature resistance. Designed for bonding a wide variety of substrates including printable plastics, Tyvek*, HDPE, PE foams,...												
	40	Havana Glassine, 75	40	-	-	-	●	●	●	●	●	●	130
FT 3047	Designed for tamper evident graphical applications by which the adhesive is leaving a UV luminescent footprint.												
NEW	55	Densified Kraft, 81	55	-	-	Densified Kraft, 81	●	●	○	●	●	●	90
FT 126	UV light compatible transfer tape offering good adhesion on PE and PU foams. Typical applications include security glazing, automotive interior component mounting, heat shields,...												
	60	Havana Glassine, 75	60	-	-	-	●	●	●	●	●	●	130
FT 2018	Versatile foam bonding tape designed for applications requiring high adhesion to low surface energy materials and bonding to foams and fabric where low fogging is required.												
	80	Havana Glassine, 69	80	-	-	-	●	●	○	●	●	●	120
FT 125	High coatweight modified transfer tape compatible with most insulating materials including difficult to convert materials such as melamine, impregnated foams,...												
	90	Havana Glassine, 75	90	-	-	-	●	●	●	●	●	●	130
FT 1158	Designed for applications requiring aggressive fiber-filled acrylic adhesive offering excellent die-cutting and slitting properties.												
NEW	130	Densified Kraft, 117	130	-	-	-	●	●	●	○	●	●	50

○ Low ● Medium-Low ● Medium ● Medium-High ● High

Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

UHA™ Acrylic Based Adhesives (Ultra High Adhesion)

FT 1182	UHA branded ultra high temperature resistant transfer tape offering extremely high shear resistance even at temperatures above 200°C.												
	60	Brown PPP, 138	60	-	-	-	●	○	●	●	●	○	200
FT Y185	High coatweight UHA branded ultra high temperature resistant transfer tape offering extremely high shear resistance even at temperatures above 200°C.												
	130	Brown PPP, 138	130	-	-	-	●	○	●	●	●	○	200

HPA Acrylic Based Adhesives (High Performance Acrylic)

HPA 1902 PET	Designed for use on nameplates, membrane touch switch assemblies and graphic overlays, and for applications requiring good "holding power" under stress and load.												
NEW	60	Clear PET, 50	60	-	-	-	●	○	●	●	●	○	200
HPA 1902	Designed for use on nameplates, membrane touch switch assemblies and graphic overlays, and for applications requiring good "holding power" under stress and load.												
NEW	60	Brown PPP, 109	60	-	-	-	●	○	●	●	●	○	200
HPA 1905 PET	Designed for use on nameplates, membrane touch switch assemblies and graphic overlays, and for applications requiring good "holding power" under stress and load.												
NEW	125	Clear PET, 50	125	-	-	-	●	○	●	●	●	○	200
HPA 1905	Designed for use on nameplates, membrane touch switch assemblies and graphic overlays, and for applications requiring good "holding power" under stress and load.												
NEW	125	Brown PPP, 109	125	-	-	-	●	○	●	●	●	○	200

○ Low ● Medium-Low ● Medium ● Medium-High ● High

Transfer Tape



Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

Silicone Based Adhesives

FT 3102	Extremely high temperature resistant transfer tape suitable for bonding to extra low surface energy materials like teflon, PTFE, carbamate coatings,...												
	50	White PET, 50	50	-	-	Clear PET, 36	●	●	●	●	●	○	250
FT 3120	High coatweight, extremely high temperature resistant transfer tape suitable for bonding to extra low surface energy materials like teflon, PTFE, carbamate coatings,...												
	80	White PET, 50	80	-	-	Clear PET, 36	●	●	●	●	●	○	250

○ Low ● Medium-Low ● Medium ● Medium-High ● High



Transfer Tape

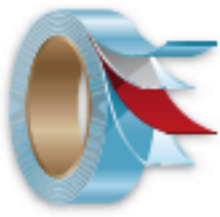
Double Coated Tissue / Non Woven

Double Coated Film

Double Coated Foam

Double Coated Scrim

Single Coated



Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure


Rubber Based Adhesives

FT 202	Very versatile adhesive used for a wide range of foam bonding applications by which temperatures exceeding 110°C and easy application are required.							●	●	○	●	●	●	110
	80	White Glassine, 85	35	Tissue	40	-								
FT Y218	Economical tape for general purpose.							●	●	○	●	●	●	55
	80	White Glassine, 70	35	Tissue	35	-								
FT 273	High tack adhesive especially designed for foamed and non foamed EPDM and natural rubbers.							●	●	○	●	●	●	65
	115	Havana Glassine, 75	50	Non Woven	50	-								
FT 228	Aggressive adhesive, hand tearable carrier developed for non woven and paper splicing.							●	●	○	●	●	●	55
	125	White Glassine, 70	50	Tissue	50	-								
FT 239	High coatweight adhesive designed for bonding to a wide variety of foams and fabrics used in gasketing, sealing and sound dampening applications including acrylic impregnated PU foams. Also widely used as splicing tape and for general bonding purposes when very high immediate grip is of key importance.							●	●	○	●	●	●	55
	160	Blue/Green Glassine, 85	65	Tissue	65	-								




○ Low ● Medium-Low ● Medium ● Medium-High ● High

Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

Pure Acrylic Based Adhesives

FT 219	High temperature resistant, high shear resistant adhesive used as closure system for sterilisation bags, bonding on plasticised rubber profiles,...												
	120	White Glassine, 70	45	Non Woven	45	-	●	○	●	●	●	○	160
FT 7250	Environmentally friendly low fogging adhesive, ideally suited for non woven and for automotive interior component mounting.												
	140	Blue/Green Glassine, 85	60	Non Woven	60	-	●	○	●	●	●	○	130

Modified Acrylic Based Adhesives

FT 7270	Versatile, low fogging foam bonding tape designed for applications requiring high adhesion to low surface energy materials and for bonding to foams and fabrics.												
	120	Havana Glassine, 69	45	Tissue	60	-	●	○	○	●	●	●	120
FT 7770	Versatile, low fogging foam bonding tape designed for applications requiring high adhesion to low surface energy materials and for bonding to foams and fabric. This product offers temporary repositionability.												
	120	Havana Glassine, 69	45	Non Woven	60	-	●	○	○	●	●	●	120
FT 7220	High coatweight, non woven carrier coated with a very aggressive adhesive suitable for bonding to difficult-to-bond to low surface energy substrates or impregnated materials.												
	140	Blue/Green Glassine, 85	65	Non Woven	65	-	●	○	○	●	●	○	120

○ Low ● Medium-Low ● Medium ● Medium-High ● High

Double Coated Film






Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

Rubber Based Adhesives

FT 340	Economical tape with double coated PP carrier for general purpose bonding.												
	75	White Glassine, 70	30	Clear PP	30	-	●	●	●	●	●	●	80
FT 306A	Very versatile adhesive used for a wide range of bonding applications by which temperatures exceeding 110°C and easy application are required. Also offers a combination of high immediate adhesion and good water immersion resistance.												
	85	Blue/Green Glassine, 85	35	Clear PP	40	-	●	●	○	●	●	●	110
FT 349	Aggressive adhesive, double coated PP carrier widely used for non woven and paper splicing.												
	145	Blue/Green Glassine, 85	65	Clear PP	65	-	●	●	○	●	●	●	55
FT 7420	High adhesion, high shear adhesive especially designed for demanding mounting applications like condensor mounting or other permanent fixations.												
	145	Havana Glassine, 75	75	Clear PP	65	-	●	●	●	●	●	○	80













































Pure Acrylic Based Adhesives

FT 397	Very smooth adhesive used in membrane touch and graphical mounting applications.												
	87	Claycoated Kraft, 140	37.5	Clear PET	37.5	Claycoated Kraft, 140	●	○	●	●	●	●	140
FT 7349	Environmentally friendly low fogging adhesive, on a coated PET carrier, ideally suited for automotive interior component mounting.												
	92	Blue/Green Glassine, 85	40	Clear PET	40	-	●	●	●	●	●	●	130
FT 7352	Very high coatweight and environmentally friendly low fogging adhesive, extremely suited for automotive interior applications.												
	210	Blue/Green Glassine, 85	100	Clear PET	100	-	●	●	●	●	●	●	130

○ Low ● Medium-Low ● Medium ● Medium-High ● High

continued on next page >

Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

MS 7035	Membrane switch spacer tape, compatible with most printing inks and corrosion free when in contact with conductive materials. For traceability, manufacturing data and product reference can be printed on the permanent liner.												
	87	Brown PPP, 138	37.5	Clear PET	37.5	Brown PPP, 138							180
MS 7005	Membrane switch spacer tape, compatible with most printing inks and corrosion free when in contact with conductive materials. For traceability, manufacturing data and product reference can be printed on the permanent liner.												
	125	Brown PPP, 138	50	Clear PET	50	Brown PPP, 138							180
MS 7006	Membrane switch spacer tape, compatible with most printing inks and corrosion free when in contact with conductive materials. For traceability, manufacturing data and product reference can be printed on the permanent liner.												
	150	Brown PPP, 138	50	Clear PET	50	Brown PPP, 138							180
MS 7007	Membrane switch spacer tape, compatible with most printing inks and corrosion free when in contact with conductive materials. For traceability, manufacturing data and product reference can be printed on the permanent liner.												
	175	Brown PPP, 138	50	Clear PET	50	Brown PPP, 138							180
MS 7008	Membrane switch spacer tape, compatible with most printing inks and corrosion free when in contact with conductive materials. For traceability, manufacturing data and product reference can be printed on the permanent liner.												
	200	Brown PPP, 138	50	Clear PET	50	Brown PPP, 138							180
MS 7009	Membrane switch spacer tape, compatible with most printing inks and corrosion free when in contact with conductive materials. For traceability, manufacturing data and product reference can be printed on the permanent liner.												
	225	Brown PPP, 138	50	Clear PET	50	Brown PPP, 138							180
MS 7011	Membrane switch spacer tape, compatible with most printing inks and corrosion free when in contact with conductive materials. For traceability, manufacturing data and product reference can be printed on the permanent liner.												
	275	Brown PPP, 138	50	Clear PET	50	Brown PPP, 138							180
MS 7014	Membrane switch spacer tape, compatible with most printing inks and corrosion free when in contact with conductive materials. For traceability, manufacturing data and product reference can be printed on the permanent liner.												
	350	Brown PPP, 138	50	Clear PET	50	Brown PPP, 138							180

 Low
  Medium-Low
  Medium
  Medium-High
  High

Double Coated Film



Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

Modified Acrylic Based Adhesives

FT 7362	Well balanced adhesive specially designed for component mounting in mobile phone assembly.												
	50	Havana Glassine, 75	19	Clear PET	19	-	●	●	●	●	●	○	120
FT 7364	Well balanced adhesive specially designed for component mounting in mobile phone assembly.												
	100	Havana Glassine, 75	45	Clear PET	45	-	●	●	●	●	●	●	120
FT 7815	Double coated tape with black PET carrier designed and used for exterior mirror heating assembly.												
	120	White PPP, 125	50	Black PET	60	-	●	●	●	●	●	●	140
FT 7366	Well balanced adhesive specially designed for component mounting in mobile phone assembly.												
	150	Havana Glassine, 75	70	Clear PET	70	-	●	●	●	●	●	●	120
FT 7368	Well balanced adhesive specially designed for component mounting in mobile phone assembly.												
	200	Havana Glassine, 75	95	Clear PET	95	-	●	●	●	●	●	●	120
FT 7369	FT 7368 with black PET carrier.												
	200	Havana Glassine, 75	95	Black PET	95	-	●	●	●	●	●	●	120

○ Low ● Medium-Low ● Medium ● Medium-High ● High

Product Name	Product Construction						Performance Characteristics						
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure	Maximum Continuous Operating Temperature (°C)

Differential Adhesives

FT 7327	Permanent/removable tape presenting long term clean removability without leaving any trace of adhesive from the mounting side, and a cohesive chemically inert acrylic adhesive at the laminating side, facilitating bleedingless die cutting and staining free aging on most papers. Used for removable graphical applications (reply cards,...) and for protection purposes in the mobile phone market.												
	46	White Glassine, 70	15	Clear PET	19	-	○	○	●	○	●	○	70
FT 310	Permanent/removable tape presenting long term clean removability without leaving any trace of adhesive from the mounting side, and a very versatile rubber based adhesive at the laminating side. Compatible with a wide variety of protective materials.												
	72	White Glassine, 70	15	Clear PET	45	-	○	○	●	○	●	○	70
FT 8392	Differential acrylic/rubber tape, designed with an acrylic adhesive suitable for polyurethane foam bonding and a general purpose rubber adhesive for a wide variety of substrates. A tape with an aggressive rubber based adhesive on the mounting side and a high performance acrylic on the laminating side.												
NEW	87	Densified Kraft, 117	40	Clear PET	35	-	○	○	○	●	●	●	80
FT 376	Differential rubber/rubber tape showing a very good balance between adhesion and removability at the mounting side, and a very high permanent adhesion at the laminating side. Largely used in optical abrasive mounting.												
	102	White Glassine, 85	25	Clear PET	65	-	○	○	○	○	○	○	65
FT 7399	Differential modified acrylic/rubber tape showing a good adhesion to a wide variety of mounting substrates including plastics, allowing temporary repositionability, and a versatile rubber based adhesive at the laminating side for heavy duty insulation mounting.												
	110	Havana Glassine, 75	40	Clear PET	65	-	○	○	○	○	○	○	140
FT 9302M	Differential modified acrylic/silicone tape, designed for applications requiring good adhesion to low surface energy and textured materials. A tape with a silicone adhesive on the mounting side and a modified acrylic on the laminating side.												
NEW	145	Clear PET, 50	70	Clear PET	50	Densified Kraft, 117	●	●	○	○	○	○	90

○ Low ● Medium-Low ○ Medium ● Medium-High ● High

Double Coated Foam



Product Name	Product Construction						Performance Characteristics						
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure	Maximum Continuous Operating Temperature (°C)

Rubber Based Adhesives

FM 2132	Conformable construction designed for gap filling and cushioning applications.												
NEW	920	Densified Kraft, 91	60	White PE foam	60	-	●	●	●	○	○	○	80
FM 7600	Developed for bonding irregular substrates, mounting hooks, hangers,...												
	1120	White Glassine, 85	60	White PE foam	60	-	●	●	●	○	○	○	80
FM 7626	Developed for bonding irregular substrates, mounting hooks, hangers,...												
	2120	White Glassine, 85	60	White PE foam	60	-	●	●	●	○	○	○	80

Pure Acrylic Based Adhesives

FM 7615	Thin automotive grade high density black foam tape developed for emblem and badge mounting in automotive and electronics.												
	400	Brown PPP, 138	62.5	Black PE foam	62.5	-	●	○	●	●	●	○	120
FM 468	Automotive grade high density black foam tape developed for emblem and badge mounting in automotive and electronics.												
	600	Brown PPP, 138	62.5	Black PE foam	62.5	-	●	○	●	●	●	○	120
FM 503L	High density automotive grade black foam tape used for body side moulding fixation, balancing weight mounting,...												
	900	Blue LDPE, 100	62.5	Black PE foam	62.5	-	●	○	●	●	●	○	120

○ Low ● Medium-Low ● Medium ● Medium-High ● High

continued on next page >

Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

FM Y422A	High temperature, high shear resistant foam tape used in automotive mirror assembly, permanent interior component mounting and household mirror mounting.												
	900	Blue/Green Glassine, 85	50	White PE foam	50	-	●	○	●	●	●	○	110
FM 464	Automotive grade high density black foam tape developed for emblem and badge mounting in automotive and electronics.												
	900	Brown PPP, 138	62.5	Black PE foam	62.5	-	●	○	●	●	●	○	120
FM 7613	Extremely flexible foam tape specially designed for mounting badges and emblems with non matching substrate contours. Holding power similar to foamed acrylic adhesives.												
	900	Brown PPP, 138	62.5	Black PE foam	62.5	-	●	○	●	●	●	○	120
FM 506L	High density automotive grade black foam tape used for body side moulding fixation, balancing weight mounting,...												
	1300	Blue LDPE, 100	62.5	Black PE foam	62.5	-	●	○	●	●	●	○	120
FM 467	Automotive grade high density black foam developed for emblem and badge mounting in automotive and electronics.												
	1300	Brown PPP, 138	62.5	Black PE foam	62.5	-	●	○	●	●	●	○	120
FM 7612	Extremely flexible foam tape specially designed for mounting badges and emblems with non matching substrate contours with a holding power similar to foamed acrylic adhesives.												
	1300	Brown PPP, 138	62.5	Black PE foam	62.5	-	●	○	●	●	●	○	120
FM 465	Automotive grade high density black foam developed for emblem and badge mounting in automotive and electronics.												
	1600	Brown PPP, 138	62.5	Black PE foam	62.5	-	●	○	●	●	●	○	120

○ Low ● Medium-Low ● Medium ● Medium-High ● High

Double Coated Foam



Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

Modified Acrylic Based Adhesives

FM 477	Well balanced double coated white foam tape used in automotive exterior mirror assembly, hook fixation on buildings and constructions,...												
	900	Havana Glassine, 75	50	White PE foam	50	-	●	●	●	●	●	●	110
FM 9630	Flexible PE foam coated on both sides with a hybrid acrylic adhesive for application on low surface energy substrates like PP and TPO. Used in bumper assembly and other high demanding exterior bonding applications.												
NEW	900	Brown PPP, 138	60	Black PE foam	60	-	●	●	●	●	●	○	120
FM 2333	Conformable construction designed for gap filling and cushioning applications that require environmental resistance.												
NEW	920	Densified Kraft, 91	60	White PE foam	60	-	●	●	●	●	●	●	90

Differential Adhesives

FM 9631	Double coated flexible PE foam coated on one side with a hybrid acrylic adhesive for application on low surface energy substrates like PP and TPO. Used in bumper assembly and other demanding exterior bonding applications.												
NEW	900	Havana Glassine, 100	60	Black PE foam	60	-	●	○	●	●	●	○	120
FM 7681	Dimensionally stabilised, high density black foam tape designed for lens edging applications.												
	920	White Glassine, 85	65	Black PO foam	62,5	-	●	○	●	●	●	○	120

○ Low ● Medium-Low ● Medium ● Medium-High ● High

Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

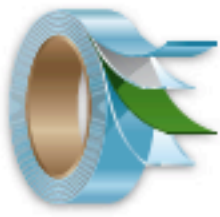
AFT Acrylic Based Adhesives (Acrylic Foam Tape)

FM 7672	Clear acrylic foam tape for heavy duty bonding applications.												
NEW	640	Red PE, 100	640	-	-	-	●	◐	●	●	●	◐	200
FM 7671	Grey acrylic foam tape for heavy duty bonding applications.												
NEW	800	Red PE, 100	800	-	-	-	●	◐	●	●	●	◐	200
FM 7670	Grey acrylic foam tape for heavy duty bonding applications.												
NEW	1000	Red PE, 100	1000	-	-	-	●	◐	●	●	●	◐	200

XHA™ Based Adhesives (Xtreme High Adhesion)

XHA 9732	XHA™ 9700 series delivers quick initial bond and achieves superior adhesion to a multitude of low surface energy plastics. An exceptionally durable technology is engineered for the most demanding industrial applications.												
NEW	800	White PP, 107	800	-	-	-	●	◐	◐	◐	●	○	90
XHA 9745	XHA™ 9700 series delivers quick initial bond and achieves superior adhesion to a multitude of low surface energy plastics. An exceptionally durable technology is engineered for the most demanding industrial applications.												
NEW	1150	White PP, 107	1150	-	-	-	●	◐	◐	◐	●	○	90

○ Low ◐ Medium-Low ◑ Medium ● Medium-High ● High




Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

Rubber Based Adhesives

FT 674	Glass fibre reinforced scrim tape specially designed for EPDM foamed weathering strips.											
172	Densified Kraft, 91	80	Glassfibre Scrim	80	-	●	●	○	●	○	○	65
FT 666	High coatweight, very aggressive adhesive specially designed for mounting foamed EPDM profiles and gaskets.											
175	Havana Glassine, 75	80	Polyester Scrim	80	-	●	●	○	●	○	○	65

Modified Acrylic Based Adhesives

FT 7951	Scrim reinforced tape offering very good adhesion of a wide variety of foams on low surface energy substrates. High temperature resistant and relative low fogging, very suitable for automotive interior applications.											
	100	Havana Glassine, 69	80	Polyester Scrim	-	-	●	○	○	○	○	120

○ Low ● Medium-Low ○ Medium ● Medium-High ● High

Why Avery Dennison on? Transfer Tape Double Coated Tissue / Non Woven Double Coated Film Double Coated Foam



Double Coated Scrim

Single Coated

Single Coated



Product Name	Product Construction						Performance Characteristics					
	Total Caliper excluding Liner (µm)	Liner Mounting Side (µm)	Adhesive Mounting Side (µm)	Carrier	Adhesive Laminating Side (µm)	Liner Laminating Side (µm)	Peel Adhesion High Surface Energy	Peel Adhesion Low Surface Energy	Shear	Resistance to Migration	Resistance to Weathering	Adhesion to Open Cell Structure

Rubber Based Adhesives

FT 569	Multi purpose aluminium tape mainly used in building & construction insulation applications.												
	75	White Glassine, 58	45	Aluminium	-	-	●	●	●	●	●	○	80

Pure Acrylic Based Adhesives

FT 0411	Transparent protective film, allowing perfect visual inspection, mainly used as application tape for emblem and badge mounting. Ability to be cleanly removed from plastics, wood, painted steel and glass surfaces even after long use.												
	125	Claycoated Kraft, 140	25	Clear PP	-	-	○	○	●	●	●	○	70

Modified Acrylic Based Adhesives

UHMW 0433	Designed for low surface energy substrate applications and abrasion resistance. Ideally suited for anti-squeak and rattle applications.												
	125	Densified Kraft, 117	50	UHMW PE	-	-	●	●	●	●	●	●	90
UHMW 0435	Designed for low surface energy substrate applications and abrasion resistance. Ideally suited for anti-squeak and rattle applications.												
	175	Densified Kraft, 117	50	UHMW PE	-	-	●	●	●	●	●	●	90
FT 0900B	Designed for sound deadening and anti-squeak applications.												
NEW	1100	Polycoated Kraft, 68	115	Black Flock	-	-	●	●	●	●	●	●	90

○ Low ● Medium-Low ● Medium ● Medium-High ● High



Legal Terms

1. PRICE AND PAYMENT

All prices, unless stated otherwise herein, are F.O.B. shipping point and are exclusive of any present or future federal, state, local or other taxes applicable to the sale of products listed herein. Any such taxes shall be added to the price and paid by PURCHASER unless PURCHASER provides Avery International Corporation (AVERY DENNISON) with a valid exemption certificate acceptable to AVERY DENNISON and the appropriate taxing authorities. All prices are subject to change without prior notice; however, prices shall be those contained in the appropriate AVERY DENNISON Price list covering the products ordered and in effect on the "Ship Date" noted on the face of AVERY DENNISON's Sales Order. Orders calling for future delivery shall be billed at prices in effect on the shipping date. Shipments which are +/- 10% of the actual quantity ordered shall constitute filling the order; and PURCHASER shall be billed only for the quantity actually shipped plus, if applicable, trim loss.

The net amount of invoice shall be payable in full within thirty days following the date of invoice. A one percent discount is available if payment is received within ten days of date of invoice. Amounts not paid within thirty days of date of invoice will be subject to a late payment charge of 1.0% per month on the unpaid balance to be included on each month's invoice until paid. The imposition of such charge is not intended to infer and consent, acquiescence or other agreement, expressed or implied, on the part of AVERY DENNISON to forbear or otherwise defer collection of such amounts when due. To the contrary, AVERY DENNISON expects payment on or before the due date of each invoice and intends to take all necessary and feasible action to enforce prompt payment. PURCHASER confirms acknowledges and agrees that it would be expensive to attempt to determine the actual damage sustained by AVERY DENNISON as the result of the default payment of any individual account and that the charge of 1.0% per month referred to above represents a reasonable endeavor to fix AVERY DENNISON's minimum probable loss resulting from delinquent payment, that such charge bears a reasonable relation to such loss and that surcharge is reasonable in amount. It is expressly intended by AVERY DENNISON and PURCHASER that this provision for late payment charges shall constitute a valid, binding and enforceable agreement for the payment of liquidated damages pursuant to Section 1671 (b) of the California Civil Code and Section 2718 (1) of the California Commercial Code. If in AVERY DENNISON'S opinion PURCHASER'S financial condition does not justify continuance of production or shipment on the terms of payment specified, AVERY DENNISON may require payments in advance. Failure of PURCHASER to pay an AVERY DENNISON invoice by its due date makes all subsequent invoices immediately due and payable irrespective of terms and AVERY DENNISON may withhold subsequent deliveries until the full account is settled.

2. ACCEPTANCE

An order once placed with and accepted by AVERY DENNISON (all orders are subject to acceptance by AVERY DENNISON's home office) may be cancelled only with AVERY DENNISON'S consent and upon terms that will indemnify AVERY DENNISON against loss.

3. TITLE AND RISK OF LOSS

Title and risk of loss to all products purchased shall pass to PURCHASER upon delivery by AVERY DENNISON to a common carrier, regardless of the freight terms stated or method of payment of transportation charges.

4. SHIPMENT AND TRANSPORTATION CHARGES

AVERY DENNISON reserves the right to specify routing of shipments. AVERY DENNISON shall attempt to ship within the time specified in AVERY DENNISON'S Sales Order, if indicated and if not then within a reasonable time; and PURCHASER acknowledges that no claim may be made for delays in shipment where PURCHASER accepts the products. Unless specified in AVERY DENNISON'S Sales Order, freight charges shall be prepaid and billed.

5. COMPLIANCE

AVERY DENNISON products are manufactured in compliance with all applicable requirements of the Fair Labor Standards Act, as amended. Except as otherwise agreed in writing normal tolerances in specifications shall not be cause to reject products.

6. RETURNS

Products sold by AVERY DENNISON are returnable only in accordance with the warranty provisions hereof. Before returning any product, PURCHASER must obtain AVERY DENNISON'S written material return authorization and instructions.

7. LIMITED WARRANTY

All statements, technical information and recommendations concerning products sold or samples provided by AVERY DENNISON are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All products are sold

and samples of products provided with the understanding that PURCHASER has independently determined the suitability of such products for its purposes. AVERY DENNISON warrants the products to be free from defects in material and workmanship. Should any failure to conform to this warranty appear within one year* after the initial date of shipment, AVERY DENNISON shall, upon notification thereof and substantiation that the products have been stored and applied in accordance with AVERY DENNISON'S standards, correct such defects by suitable repair or replacement without charge at AVERY DENNISON'S plant or at the location of the products (at AVERY DENNISON'S election); provided, however, if AVERY DENNISON determines that repair or replacement is not commercially practical, AVERY DENNISON shall not commercially practical, AVERY DENNISON shall issue a credit in favor of PURCHASER in an amount not to exceed the purchase price of the products.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR USE AND/OR NON-INFRINGEMENT. NO REPRESENTATIVE OR AGENT OF AVERY DENNISON IS AUTHORIZED TO GIVE ANY GUARANTEE OR WARRANTY OR MAKE ANY REPRESENTATION CONTRARY TO THE ABOVE. NO WAIVER, ALTERATION, ADDITIONS OR MODIFICATIONS OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.

*Or the time period stated on the specific product specification sheet, if any, and if not then on the specific information literature in effect at time of shipment.

8. LIMITATION OF LIABILITY

In no event shall AVERY DENNISON be liable for any incidental or consequential damages, including but not limited to, loss of profit, loss of use or production or loss of capital. The remedies of PURCHASER set forth herein are exclusive and the total liability of AVERY DENNISON with respect to any contract, or anything done in connection therewith such as the performance or breach hereof, or from the manufacture, sale, delivery, resale, installation or use of any products whether arising out of contract, negligence, strict tort, or under any warranty, or otherwise shall not exceed the purchase price of the products upon which liability is based.

9. ASSIGNMENT

Any assignment of this agreement or of any rights hereunder or hypothecation thereof in any manner, in whole or in part, without the prior written consent of AVERY DENNISON shall be void.

10. NON-WAIVER

Failure by AVERY DENNISON to insist upon strict performance of any of the terms or conditions hereof, failure or delay to exercise any rights or remedies provided herein or by law or to properly notify PURCHASER in the event of breach, or the acceptance of payment for any products hereunder, shall not be deemed a waiver of any right of AVERY DENNISON to insist upon strict performance hereof or any of its rights or remedies or as to any prior to subsequent default hereunder, nor shall any termination of this agreement operate as a waiver of any of the terms hereof.

11. FORCE MAJEURE

AVERY DENNISON shall not be liable for any loss, damage, delays, changes in shipment schedules or failure to deliver caused by accident, fire, strike, riot, civil commotion, insurrection, war, the elements, embargo, failure of carrier, inability to obtain transportation facilities, government requirements, acts of God or public enemy, prior orders from others or limitations on AVERY DENNISON'S or its suppliers' products or marketing activities or any other cause or contingency beyond AVERY DENNISON'S control.

12. CHOICE OF LAW

This agreement shall be governed by and construed in accordance with the laws of the State of Delaware.

13. ENTIRE AGREEMENT

These terms and conditions embody the entire agreement and understanding between the parties, are intended as a complete and exclusive statement of the terms of agreement regarding the products set forth on AVERY DENNISON'S Sales Order between the parties, and supersede any prior or collateral agreement or understanding between the parties relating to the subject matter hereof. PURCHASER acknowledges that AVERY DENNISON has not made any representation to PURCHASER other than those, which are specifically referred to or contained herein. Each paragraph and provision hereof is severable and if any provision is held invalid or unenforceable, the remaining provisions shall nevertheless remain in full force and effect.



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