AVERY DENNISON

Core Series™ Portfolio Product Selection Tool

A streamlined portfolio of pressure-sensitive adhesives designed for the easy selection of a wide variety of bonding and application solutions.

For European Market

AVERY DENNISON | Performance Tapes

ABOUT THE CORE SERIES PORTFOLIO

The Avery Dennison Core Series™ Portfolio is designed to make it easy for you to do business with Avery Dennison and your customers in Europe.

The Core Series Portfolio features the full breadth of the Avery Dennison Performance Tapes adhesive technologies—from general purpose rubber to silicone—in a variety of tape constructions. The portfolio has been developed to address a majority of your bonding needs.

CORE SERIES PORTFOLIO BENEFITS

1) Ease of doing business
2) Quick turnaround on quotations
3) 1 master roll MOQ
4) Product order shipment within 4 calendar days
5) Rapid product sampling
6) Product binder/catalogue
7) Product selection tool

USING THE PRODUCT SELECTION TOOL

The Core Series Product Selection Tool is designed to streamline your adhesive/construction selection process. The tool will help walk you through the information gathering process by following four simple steps that will assist you in determining the correct adhesive for your application. The products have been color coded throughout the tool to aid you during the selection process.

We invite you to use this tool whenever you have an opportunity to make an adhesive selection; we have done our best to make the tool self-serve. We also want you to be confident in your product selection, so please feel free to call your account manager to verify your selection.

- High Adhesion Rubber
- High Shear Rubber
- Tackified Acrylic
- Pure Acrylic
- Silicone
- Low VOC Acrylic
- HPA™ High Performance Acrylic
- AFB™ Acrylic Foam Bond
- Permanent/Removable

ADHESIVE CATEGORIES

Our Core Series portfolio is organized into adhesive categories to help you easily select the proper adhesive type and choose the right product construction to meet your application needs.

HIGH ADHESION RUBBER

Economical high adhesion rubber . Ideal for laminating to polyester urethane and skinned foams. Bonds well to HDPE, LDPE and other Low Surface Energy (LSE) substrates.
Typical Applications: *Foam bonding (PE, polyester urethane, EPDM, nitrile vinyl, PORON®), cotton felt (shoddy)*

Max service temperature: 55˚-105˚C
Shear: Low
Bonds well to low, medium and high surface energy materials

HIGH SHEAR RUBBER

High shear rubber adhesive bonds to a wide variety of substrates. Not recommended for foam bonding. Bonds well to HDPE, LDPE and other LSE substrates.
Typical Applications: *Hang tabs, security labels, plastics, POP (point-of-purchase) displays, UHMWPE, hooks*

Max service temperature: 80˚C
Shear: High
Bonds well to low, medium and high surface energy materials

TACKIFIED ACRYLIC

Tackified acrylic adhesive with high initial tack. Ideal for bonding to polyester urethane and skinned foams.
Typical Applications: *Foam bonding (PE, polyurethane foams), heat shields, UHMWPE, thermal insulation, plasticised materials*

Max service temperature: 100˚ - 145˚C
Shear: Medium
Bonds well to low, medium and high surface energy materials

PURE ACRYLIC

Pure acrylic adhesive with good holding power under stress and load with resistance to chemicals and extreme temperatures.
Typical Applications: *Graphic attachment, badges, emblems and nameplates, membrane switches, electrical shields, polycarbonate, veneers*

Max service temperature: 180˚C
Shear: High
Bonds well to medium and high surface energy materials

SILICONE

Silicone adhesive with high adhesion on silicone or antifriciton coatings and low surface energy substrates, extreme temperature and chemical resistance.
Typical Applications: *Direct lamination on silicone foams, high temperature gaskets*

Max service temperature: 250˚C
Shear: High
Bonds well to low surface energy materials

LOW VOC ACRYLIC

Low VOC acrylic adhesive. Ideal for bonding to polyether and polyester urethanes and skinned foams.
Typical Applications: *Seat heating, foam bonding (PE, polyurethane foams), speaker grills, flooring, vinyl, carpet mounting*

Max service temperature: 150˚C
Shear: Medium
Bonds well to medium and high surface energy materials

HPA™ HIGH PERFORMANCE ACRYLIC

High performance acrylic adhesive with high holding power under stress and greater loads with resistance to chemicals and extreme temperatures.
Typical Applications: *Graphic attachment, nameplates/dome labels, membrane switch, electrical shields, polycarbonate, veneers*

Max service temperature: 200˚C
Shear: High
Bonds well to medium and high surface energy materials

AFB™ ACRYLIC FOAM BOND

AFB is constructed of acrylic foam that is viscoelastic in nature with flow and self adhesion properties, which offers excellent bonding to a broad range of substrates in demanding environments.
Typical Applications: *Component assembly, mounting and attachment applications in automotive, appliances, electronic devices, signage and graphics. Acrylic foam tapes provide strong tack and adhesion to a wide range of substrates including PC, ABS, PMMA and metal*

Max service temperature: 175˚C
Shear: Medium
Bonds well to low, medium, and high surface energy materials

PERMANENT/REMOVABLE

Designed for bonding dissimilar materials, these products feature different adhesive systems on the laminating and mounting sides. Differential tape with permanent adhesive on the laminating side, ideal for bonding to foams, LDPE and HDPE, and removable acrylic adhesive on the mounting side.
Typical Applications: *Polishing pads, recloseable bags, POP (point-of-purchase) displays, mounting promotional items, removable/ changeable foam gaskets, surface protection solutions (pads, covers)*

Max service temperature: 105˚C
Shear: Medium
Long term Removable

CHOOSING A CORE SERIES ADHESIVE

First, gather the following information:

1. What type of material will you be laminating to:

- Polyether Urethane
- Polyester Urethane
- Dense Urethane (Poron®, HyPUR-cel®, Norseal®)
- Sponge Rubber Foam (EPDM, Nitrile, Vinyl, Neoprene)
- Silicone Sponge Foam
- Nonwovens, felts and fabrics
- High or medium surface energy films or foils
- Low surface energy films or foils
- Plain & coated metal surfaces
- Other common building materials

2. What is the surface energy of the substrate your laminated part will be bonded to?

High:	Aluminum, Stainless Steel, Copper, Glass, Polyimide (Kapton®), Nylon, Polyester (PET) Film, Polyurethane Film
Medium:	ABS, Polycarbonate, Vinyl (PVC), Acrylic, Polystyrene
Low:	EVA, Powder Coated Paint, Polyethylene, Polypropylene, PVF
Extra low:	PTFE (Teflon™), Silicone

3. Are there any other end use application requirements?

- Temperature Resistance
- Humidity Resistance
- Solvent/Chemical Resistance
- UV Resistance
- Shear
- Tack
- Cost
- OEM Specifications (learn more about our OEM specified products at tapes.averydennison.com/oemcertfinder)

4. What tape construction is needed?

- Transfer Tape - Single Liner/Double Liner
- Single Coated Tape
- Double Coated Tape/Differential

Once you have gathered the information; you are then ready to chose a Core Series product for your application.

CHOOSING A CORE SERIES ADHESIVE

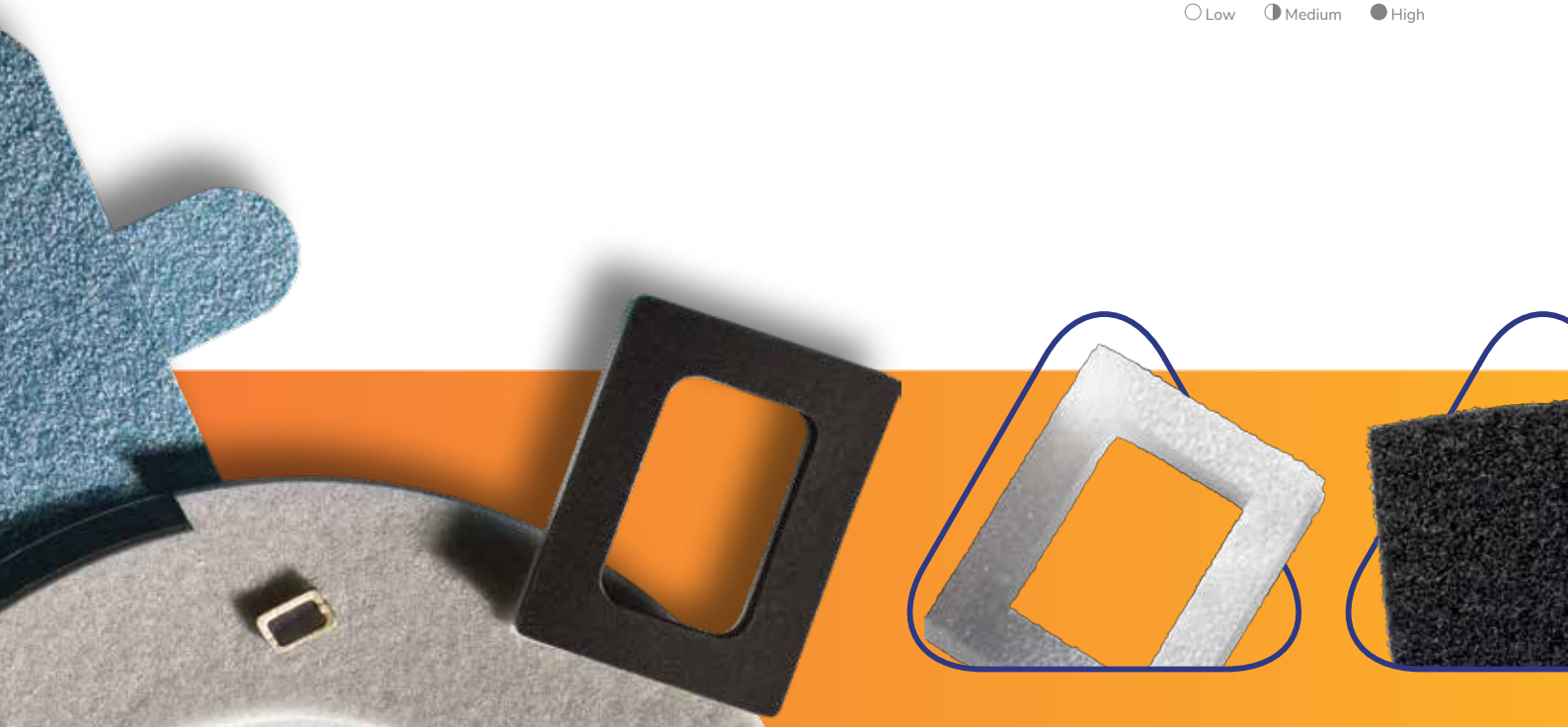
STEP 1: What material will you be laminating to?

Our Core Series offers adhesive chemistries for a wide range of common lamination materials, including foams, fibrous, and films. Use this chart to see which adhesives are compatible with your material.

LAMINATION SELECTION GUIDE

	FOAMS					FIBROUS	FILMS & FOILS (Refer to Surface Energy Chart)	
Adhesive Types	Polyether Urethane	Polyester Urethane	Dense Urethane (Poron®, HyPUR-cel®, Norseal®)	Sponge Rubber Foams (EPDM, PVC, Nitrile Vinyl, Neoprene)	Silicone Sponge Foam	Nonwoven, Felts and Fabrics	High & Medium Surface Energy	Low Surface Energy
High Adhesion Rubber	◑	●	●	●	○	●	●	●
High Shear Rubber	○	○	◑	◑	○	●	●	●
Tackified Acrylic	●	●	●	●	○	●	●	●
Pure Acrylic	○	○	○	○	○	◑	●	○
Silicone	○	○	○	○	◑	○	◑	●
Low VOC Acrylic	●	●	◑	◑	○	●	●	○
High Performance Acrylic	○	○	○	○	○	◑	●	○
Acrylic Foam Bond	○	○	○	○	○	○	○	○
Permanent/Removable	○	○	○	○	○	●	●	○

○ Low ◑ Medium ● High



STEP 2: What is the surface energy of the substrate your laminated part will be bonded to?

Low and extra-low surface energy substrates provide a bonding challenge for some adhesives. Use the chart below to determine which adhesive families are most suitable for bonding your laminated part.
Note: Keep in mind which families were also suitable in Step 1.

SURFACE ENERGY SELECTION GUIDE

	HIGH								MEDIUM					LOW						X-LOW	
Adhesive Types	Aluminum	Stainless Steel	Copper	Glass	Polyimide (Kapton®)	Nylon	Polyester (PET)	Polyurethane (PU) Film	ABS	Polycarbonate (PC)	Vinyl (PVC)	Acrylic	Polystyrene	EVA	Powder Coated Paints	Polyethylene (PE, UHMW)	Polypropylene (PP)	PVF (Tedlar)	Unknown Substrate	PTFE (Teflon™)	Silicone
High Adhesion Rubber	●								●					●						○	
High Shear Rubber	●								●					◑						○	
Tackified Acrylic	●								●					●						○	
Pure Acrylic	●								○					○						○	
Silicone	◑								◑					●						●	
Low VOC Acrylic	●								◑					○						○	
High Performance Acrylic	●								○					○						○	
Acrylic Foam Bond	●								◑					○						○	
Permanent/Removable	◑								◑					◑						○	

○ Low ◑ Medium ● High

STEP 3: Are there additional end use application requirements?

End use requirements—such as exposure to temperature extremes or chemicals—should be considered when choosing an adhesive. Use the chart below to determine which adhesive families are most suitable for other application requirements.

Note: Keep in mind the adhesive families that were also suitable in Steps 1 and 2.

APPLICATION REQUIREMENTS GUIDE

Adhesive Chemistries	Maximum Service Temperature	Humidity Resistance	Solvent / Chemical Resistance	UV Resistance	Shear	Tack
High Adhesion Rubber	○	●	○	○	○	●
High Shear Rubber	○	●	○	○	●	●
Tackified Acrylic	◑	○	○	◑	◑	●
Pure Acrylic	●	●	●	●	●	◑
Silicone	●	●	●	●	●	○
Low VOC Acrylic	◑	●	◑	●	◑	◑
High Performance Acrylic	●	●	●	●	●	○
Acrylic Foam Bond	●	●	●	●	●	●
Permanent/Removable	◑	●	○	○	○	○

○ Low ◑ Medium ● High

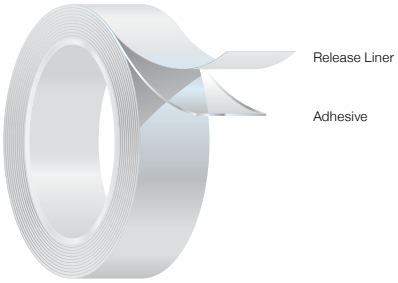
STEP 4: What construction is needed for your process?

When reviewing the application, consider also the physical nature of the laminating and mounting surfaces as these will influence the adhesive coating thickness and tape construction. The liner is important when considering how the part will be processed after lamination and applied by the end user. Our Core Series portfolio (pages 10-11) features a range of liners. When choosing a product, consider how well the liner attributes fit the processing needs.

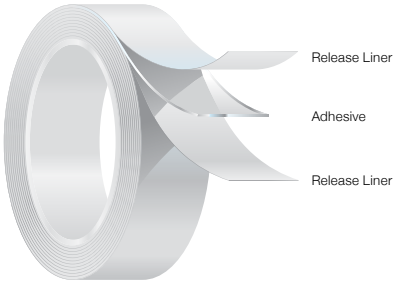
WHAT TAPE TO USE

Smooth and Flat		Thin adhesive tapes or transfer films
Smooth, but Uneven		Foam carriers or thick transfer films
Rough and Even		High adhesive masses
Rough, but Uneven		Foam carriers with high adhesive mass or thick transfer films
Textured and Flat		High adhesive masses
Textured but Uneven		Foam carriers with high adhesive mass or thick transfer films

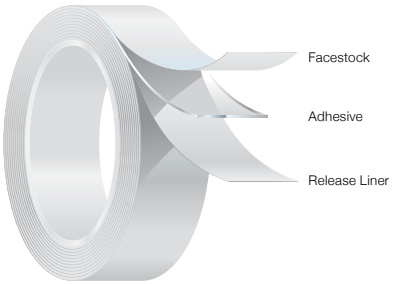
CONSTRUCTIONS



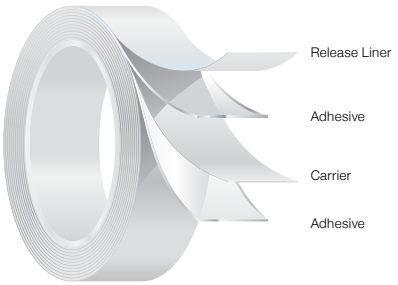
Single Liner Transfer Tape



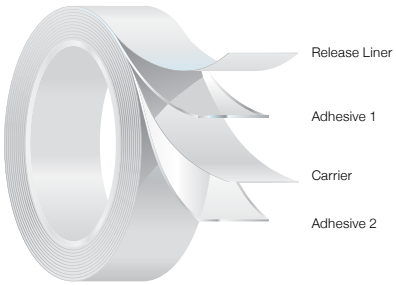
Double Liner Transfer Tape



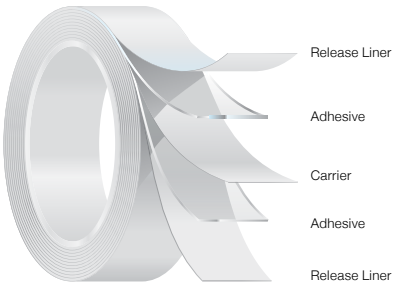
Single Coated Tape



Double Coated Tape



Differential Tape



Double Liner Double Coated Tape

Finally, once you've made an adhesive choice, refer to these tables for additional product and ordering information.

Adhesive Category	Product	Construction	Liner Type	Thickness (µ)	Roll Dimension	LT Days	MOQ/ Rolls	MOQ/ m^2	Packaging
Acrylic Foam Bond	**AFB 6610C**	Acrylic Foam Bond	PE 130 Red	1000	500 MM x 33 M	4	1	16.5	BOX
	AFB 6625C	Acrylic Foam Bond	PE 130 Red	250	500 MM x 33 M	4	1	16.5	BOX
	AFB 6650C	Acrylic Foam Bond	PE 130 Red	500	500 MM x 33 M	4	1	16.5	BOX
	AFB 6660G	Acrylic Foam Bond	PE 130 Red	600	900 MM x 33 M	4	1	29.7	BOX
	AFB 6680G	Acrylic Foam Bond	PE 130 Red	800	900 MM x 33 M	4	1	29.7	BOX
High Adhesion Rubber	**FL 545**	Single Coated / Alu 50µ Gloss	BG 40 Brown	100	75 MM x 50 M	4	16	60	BOX
					1500 MM x 100 M	10	5	750	BOX
	FT 107	Transfer Tape	BG 65 Blue-Green	60	1000 MM x 250 M	4	1	250	BOX
					1000 MM x 250 M	4	9	2250	BULK
					1500 MM x 250 M	4	1	375	BOX
	FT 117	Transfer Tape	BG 50 White	60	1000 MM x 250 M	4	1	250	BOX
					1000 MM x 250 M	7	9	2250	BULK
					1520 MM x 250 M	7	12	4560	BULK
	FT 131	Transfer Tape	BG 40 White	30	1000 MM x 250 M	4	1	250	BOX
	FT 167	Transfer Tape	BG 50 White	60	1000 MM x 250 M	4	1	250	BOX
	FT 2147	Transfer Tape	OPP 100 White	60	1520 MM x 250 M	21	9	3420	BOX
	FT 239	Double Coated / Tissue	BG 65 Blue-Green	160	1000 MM x 250 M	4	1	250	BOX
					1000 MM x 250 M	7	9	2250	BULK
	FT 306A	Double Coated / PP 15µ Clear	BG 65 Blue-Green	86.5	1000 MM x 250 M	4	1	250	BOX
					1000 MM x 500 M	21	6	3000	BULK
					1500 MM x 500 M	21	4	3000	BOX
	FT 349	Double Coated / PP 15µ Clear	BG 65 Blue-Green	145	1000 MM x 250 M	4	1	250	BOX
					1000 MM x 250 M	14	9	2250	BULK
					1500 MM x 250 M	21	9	3375	BOX
	FT 666	Double Coated / Polyester Scrim	BG 55 Havana	180	1000 MM x 250 M	4	1	250	BOX
					1000 MM x 250 M	7	9	2250	BULK
	FT B1148	Double Coated / PET 12µ	BG 55 Yellow / BG 90 Yellow	90	700 MM x 1000 MM	4	100 Sheets	70	BOX
	FT B1149	Double Coated / PET 12µ	BG 55 Yellow	90	1500 MM x 100 M	4	1	150	BOX
High Performance Acrylic	**HPA 1902W**	Transfer Tape	PPP 120 White	65	1020 MM x 250 M	7	1	255	BOX
	HPA 1905W	Transfer Tape	PPP 120 White	125	1020 MM x 250 M	7	1	255	BOX
High Shear Rubber - DC Foam	**FM M1702**	Double Coated / PE Foam White	BG 65 White	900	1500 MM x 66 M	4	1	99	BOX
					1500 MM x 100 M	10	3	450	BOX
	FM M1750	Double Coated / PE Foam White	BG 65 White	1100	1500 MM x 66 M	4	1	99	BOX
					1500 MM x 100 M	10	3	450	BOX
High Shear Rubber - DC Film	**FT B1200**	Double Coated / Fox Film 20µ	BG 55 White	150	1500 MM x 100 M	4	1	150	BOX
Low VOC Acrylic	**FT 2150**	Transfer Tape	BG 65 White	60	1000 MM x 250 M	7	9	2250	BOX
	FT 7999	Double Coated / Polyester Scrim 3x2	BG 50 Havana	100	1520 MM x 250 M	7	9	3420	BULK
					1020 MM x 250 M	28	18	4590	BULK

Adhesive Category	Product	Construction	Liner Type	Thickness (µ)	Roll Dimension	LT Days	MOQ/ Rolls	MOQ/ m^2	Packaging
○ Permanent/ Removable	**FT 310**	Double Coated / PET 12µ Clear	BG 50 White	68.5	1000 MM x 250 M	4	1	250	BOX
					1000 MM x 250 M	21	9	2250	BULK
					1500 MM x 250 M	21	9	3375	BOX
					1500 MM x 500 M	21	6	4500	BULK
					1250 MM x 500 M	28	6	3750	BULK
	FT B1121	Double Coated / PET 12µ	PPP 125 White	70	1500 MM x 100 M	4	1	150	BOX
● Pure Acrylic	**FM 464**	Double Coated / PE Foam Black (800µm - 143kg/m³)	PPP 130 Brown	925	1000 MM x 100 M	4	1	100	BOX
	FM 468	Double Coated / PE Foam Black (500µm - 185kg/m³)	PPP 130 Brown	625	1000 MM x 100 M	4	1	100	BOX
	FT 397	Double Coated / PET 12µ Clear	Claycoated Paper 140 White / Claycoated Paper 140 White	83.5	1000 MM x 250 M	7	6	1500	BULK
					1000 MM x 700 MM	4	250 Sheets	175	BOX SHEETS
	FT F2001 MAT	Transfer Tape	Clear PE 100µ / Claycoated Paper 100gr	43	1500 MM x 500 M	10	2	1500	BOX
● Silicone Adhesive	**FT 3102**	Transfer Tape	PET 50 White / PET 36 Clear	48	1250 MM x 250 M	7	2	625	BOX
● Tackified Acrylic	**FT 125**	Transfer Tape	BG 55 Havana	90	1000 MM x 250 M	4	1	250	BOX
						14	9	2295	BULK
	FT 126	Transfer Tape	BG 55 Havana	60	1000 MM x 250 M	4	1	250	BOX
	FT 2018	Transfer Tape	BG 50 Havana	80	1020 MM x 250 M	4	1	255	BOX
					1020 MM x 250 M	4	9	2295	BULK
					1250 MM x 250 M	7	18	5625	BULK
					1520 MM x 250 M	7	9	3420	BULK
	FT 2020	Transfer Tape	BG 50 Havana	50	1020 MM x 250 M	4	9	2295	BULK
					1250 MM x 250 M	28	18	5625	BULK
					1520 MM x 250 M	4	1	380	BOX
					1520 MM x 250 M	7	9	3420	BULK
	FT 2055	Transfer Tape	OPP 60 White (60µm)	50	1020 MM x 250 M	4	9	2295	BULK
					1020 MM x 250 M	4	1	255	BOX
					1520 MM x 250 M	28	18	6840	BULK
	FT 7230	Double Coated / Tissue	BG 50 Havana	100	1020 MM x 250 M	7	2	510	BOX
					1020 MM x 250 M	7	9	2295	BULK
					1520 MM x 250 M	7	9	3420	BULK
	FT 7770	Double Coated / Non-Woven	BG 55 Havana	115	1020 MM x 250 M	4	1	255	BOX
					1020 MM x 250 M	4	9	2295	BULK
					1520 MM x 250 M	7	9	3420	BULK
	FT 7930	Double Coated / Polyester scrim 4x2,1	BG 50 Havana	70	1020 MM x 250 M	7	9	2295	BULK
					1520 MM x 250 M	7	9	3420	BULK
	FT 7951	Double Coated / Polyester scrim 3x2	BG 50 Havana	90	1020 MM x 250 M	4	1	255	BOX
					1020 MM x 250 M	7	9	2295	BULK
					1250 MM x 250 M	7	9	2813	BULK
					1520 MM x 250 M	7	9	3420	BULK
	FT 7958	Double Coated / Polyester scrim 3x2	OPP 60 White (60µm)	90	1020 MM x 250 M	7	9	2295	BULK
					1520 MM x 250 M	7	9	6840	BULK

ABOUT AVERY DENNISON

Avery Dennison Corporation (NYSE: AVY) is a global materials science and manufacturing company specializing in the design and manufacture of a wide variety of labeling and functional materials. The company's products, which are used in nearly every major industry, include pressure-sensitive materials for labels and graphic applications; tapes and other bonding solutions for industrial, medical and retail applications; tags, labels and embellishments for apparel; and radio-frequency identification (RFID) solutions serving retail apparel and other markets. Headquartered in Glendale, California, the company employs approximately 30,000 employees in more than 50 countries. Reported sales in 2018 were $7.2 billion. Learn more at www.averydennison.com.

ABOUT AVERY DENNISON PERFORMANCE TAPES

Avery Dennison Performance Tapes is a world-class operation focused on developing and manufacturing high performance pressure-sensitive adhesives and tapes for a broad range of applications in automotive, appliances, electronics, building and construction, specialty industrial and personal care segments. The organization has 50 years of experience supplying standard and customized pressure-sensitive materials designed to deliver innovative solutions for customers' needs across the globe. Worldwide manufacturing facilities ensure a global presence supported by local sales, technical and customer service throughout the regions. Learn more at www.tapes.averydennison.com.

Please refer to **Tapes.AveryDennison.com** for complete terms and conditions, including warranty terms, relating to this product. You should periodically review the site as terms and conditions are subject to change without notice.

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For more information on our bonding tapes and adhesive solutions, visit **Tapes.AveryDennison.com**