Customer-Ready™ Durables Portfolio

Simplifying the time, cost and complexity of durable goods labeling

AVERY DENNISON

UL 969 and CSA c22.2 No. 15 Standards

Helping you to grow your durables business

The Avery Dennison Customer-Ready™ Durables Portfolio includes our UL®/CSA-recognized material solutions that simplify servicing the durables market. This core group of UL/CSA-recognized multipurpose products, including inks, ribbons and adhesives, make it faster, easier and more affordable to adopt a product for your UL/CSA file.

Growing along with you

The Customer Ready Durables portfolio has been a go-to resource for converters and customers for over 10 years. We continue to add components in response to the introduction of new materials in the durables marketplace and converter requests. We have most recently included:

- New inks tested in our lab
- New printers and that have been tested for our materials

These new materials not only increase the portfolio's versatility, they increase the breadth and depth of its application coverage.

The bottom line? Less testing time, less expense, quicker order response and increased business opportunities.

Customer-Ready™ Durables Portfolio

The Customer-Ready Portfolio is designed to streamline product selection, testing and qualification through the use of UL/CSA recognized constructions. Our goal is to offer a portfolio of options for a variety of applications that are easily adopted into your UL/CSA file.

It includes:

- A core of multipurpose products proven to cover the majority of durables and industrial applications, including PET, polypropylene, vinyl and overlaminate films, as well as digital products.
- Cost-effective, fit for use solutions offered through the Avery Dennison EXACT™ service program.
- UL/CSA-recognized materials with flexo and digital inks, thermal transfer ribbons, and two proprietary adhesives.
- A versatile overlaminate to provide chemical, weathering and abrasion resistance.

The Avery Dennison UL/CSA-recognized system simplifies file for a label adoption, significantly reducing the time, cost and effort of adding a product to a UL file.

Overlaminate:

Spec #	Description
77844	1 Mil Clear Print-Treated PET/S8020/40# BG

All base materials are UL/CSA recognized with a variety of press inks (see selection tool for details).

Base Material:

Spec #	Description
78385	2 Mil White PET TC S8001/50# SCK
78387	2 Mil Matte Chrome PET TC/S8001/50# SCK
77920	2 Mil Wh...

UL/CSA recognition is an unknown process for many converters

For converters, having a printed label UL/CSA-recognized takes hours of manpower, weeks of testing and thousands of dollars. Using a Customer-Ready construction lets you file for a label adoption instead, saving immense time, money and effort. The advantages are clear.

Faster. Reduced from 12+ weeks to 2

With Customer-Ready, UL/CSA-recognition time is reduced by 84%, increasing a product's speed to market and your reputation as a responsive business partner – both of which expand sales growth opportunities.

Easier. More materials for more applications

The UL/CSA file for our newly expanded portfolio offers the largest listing of surfaces and conditions to cover a wider range of end-use applications. This simplifies the process. Plus, our products are tested and UL/CSA-recognized with ACTEGA WIT, EIC, Flint, EFI Jetrion and HP Indigo inks as, well as leading thermal transfer ribbons.

Less Expense. Cut by up to 74%

The Customer-Ready label adoption process adds bottom line value. Our wide range of end-use applications reduces inventory SKUs and carrying costs. Plus EXACT service program offerings allow for precise estimating and lower total applied costs – think reduced scrap, no trim costs and just-in-time inventory.

More Opportunities.

With a minimum order quantity of a single roll and rapid delivery, you can now take on jobs that would have not been feasible or profitable in the past. This quick turn capability allows you to increase speed to market and generate new business.

Another Way We Can Help Simplify Your Durables Business

In-house Global Client Services Laboratory streamlines product testing and qualification for UL/c-UL recognition

Starting from scratch to get a product recognized? Our Global Client Services Laboratory has everything needed to conduct testing equivalent to that done in UL's own laboratories. For example, to support testing nameplates and safety labels to UL 969 and CSA C22.2 No. 0.15 standards, the lab can perform the following tests on selected substrates, inks and ribbons.

- Legibility
- Defacement
- Chemical Exposure
- Humidity Exposure
- Heat Aging
- Adhesion
- Taber Abrasion
- Water Resistance
- Environmental (Cold/UV) Resistance

Once testing has been completed, Avery Dennison provides UL with a data sheet ready package of results for the materials tested. All data submitted is thoroughly reviewed and audited by UL before recognition is issued.

Faster Testing Gets Products to Market Sooner

Reflecting our commitment to support customers, the Global Client Services Laboratory offers you a streamlined, cost-effective process intended to get UL/c-UL recognized products to market sooner:

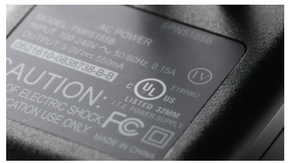
- Faster testing by our in-house Global Client Services Laboratory results in products that can be recognized and listed sooner, facilitating streamlined label adoption for our customers
- New features can quickly be added to existing, recognized products

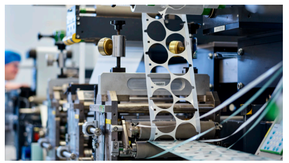
What's more, our strong ties to UL and our in-depth understanding of the recognition process allows us to provide invaluable support and collaboration on new materials requiring UL recognition, speeding the materials creation and increasing business opportunities for converters and brand owners alike.

Getting Started

Choosing components for your UL/c-UL/CSA-recognized label has never been easier.

Before starting you'll need to know three things:





End Use:

- Function of Label
- Permanent, Removable or Repositionable
- Substrate
- Environmental Conditions
- Label Application

Processing:

- Press Technology
- Electronic Printing Method
- Converting

Compliance:

- Environmental
- Agency
- End User Specification

Then follow these 5 steps:

Step 1 Determine product candidates that meet your application's requirements.
Step 2 Cross reference with application's surface and UL/c-UL/CSA environmental conditions.
Step 3 Select printing ink system.
Step 4 Select thermal transfer ribbon.
Step 5 Submit label adoption request with Avery Dennison file number and product description to UL.

Step 1

Determine product candidates that meet your application's general requirements

Spec#	Face	Adhesive	Liner	Min. Appl. Temp (°C)	Low Service Temp (°C)	High Service Temp (°C)	Chem. Resist*	Convertibility	Comments
Overlaminate:									
77844	1 Mil Clear Print Treated PET	S8020	40#BG	-4	-40	150	7	9	Provides resistance to chemicals, weathering and abrasion.
77841	1 Mil Clear Topcoated PET	S8020	40#BG	-4	-40	150	7	9	Provides resistance to chemicals, weathering and abrasion.
77843	1 Mil Matte NTC PET	S8020	40#BG	-4	-40	150	7	9	Provides resistance to chemicals, weathering and abrasion.
79325	1 Mil Clear UV Print Treated PET	S3000	1 Mil PET	-4	-40	150	7	9	Provides maximum resistance to UV exposure along with resistance to chemicals, weathering and abrasion.
Base Material:									
78401	3 Mil Synthetic Paper	S8001	50#SCK	10	-40	80	8	7	Matte white polypropylene; cost effective alternative to PET for indoor applications.
78403	2.3 Mil White BOPP TC	S8001	50#SCK	10	-40	80	7	7	Glossy white polypropylene; cost effective alternative to PET for indoor applications.
78385	2 Mil White PET TC	S8001	50#SCK	10	-40	150	8	7	High strength film suitable for demanding indoor and outdoor applications.
78387	2 Mil Matte Chrome PET TC	S8001	50#SCK	10	-40	150	8	7	
76656	2 Mil White PET TC	S8015	50#SCK	10	-40 -23	150	10	9	High strength film suitable for demanding indoor and outdoor applications. S8015 features high initial tack, adhesion and shear, and excellent chemical and UV resistance.
76660	2 Mil Matte Chrome PET TC	S8015	50#SCK	10	-40 -23	150	10	9	
77922	2 Mil Matte Chrome PET TC	S8025	50#SCK	10	-40	150	10	9	High strength film suitable for demanding indoor and outdoor applications.
78981	2 Mil White PET TCD	S8025	50#SCK	10	-40	150	10	9	
77920	2 Mil White PET TC	S8025	50#SCK	10	-40	150	10	9	High strength film suitable for demanding indoor and outdoor applications. S8025 offers improved chemical resistance and convertibility.
79648	4 Mil White Flex Vinyl TCD	S8025	50#SCK	10	-40	80	8	6	Durable topcoat designed for flexographic and durable inks, also allows for thermal transfer printing
77921	2 Mil Clear PET TC	S8025	50#SCK	10	-40	150	10	9	High strength film suitable for demanding indoor and outdoor applications. S8025 offers improved chemical resistance and convertibility.
79732	2 Mil White PET TC	S8029	50#SCK	10	-40	150	10	8	High strength film suitable for demanding indoor and outdoor applications. S8029 features extremely high final adhesion on a wide variety of surfaces, and excellent chemical resistance.
79453	2 Mil White PET TC	S8049	50#SCK	10	-40	150	10	9	High strength film suitable for demanding indoor and outdoor applications. S8049 offers improved adhesion on rough, oily and low surface energy substrates.
79534	2 Mil Matte Chrome PET TC	S8049	50#SCK	10	-40	80	7	7	High strength film suitable for demanding indoor and outdoor applications. S8049 offers improved adhesion on rough, oily and low surface energy substrates.

10 Excellent ⟶ 1 Poor

Notes:
All products are offered Fasson EXACT™
All base material products are suitable for bonding to all surface energy substrates.
Additional UL-recognized product constructions are available. Contact your sales representative for further information.

Step 2

Cross reference with application's surface and UL/c-UL/CSA conditions

Polyester - UL Conditions

		77920: 2 Mil White PET TC/ S8025/50#SCK **77922:** 2 Mil Matte Chrome PET TC/ S8025/50#SCK					**78385:** 2 Mil White PET TC/ S8001/50#SCK **78387:** 2 Mil Matte Chrome PET TC/ S8001/50#SCK					**79453:** 2 Mil White PET TC/ S8049/50#SCK **79534:** 2 Mil Matte Chrome PET TC/ S8049/50#SCK					**76656:** 2 Mil White PET TC/ S8015/50#SCK **76660:** 2 Mil Matte Chrome PET TC/ S8015/50#SCK				
	Surfaces	**Max Temp C**	**Min Temp C**	**Indoor Use**	**Outdoor Use**	**Addt'l Cond.**	**Max Temp C**	**Min Temp C**	**Indoor Use**	**Outdoor Use**	**Addt'l Cond.**	**Max Temp C**	**Min Temp C**	**Indoor Use**	**Outdoor Use**	**Addt'l Cond.**	**Max Temp C**	**Min Temp C**	**Indoor Use**	**Outdoor Use**	**Addt'l Cond.**
UL - Recognition	Acrylic Paint	150	-40	Yes	Yes	O,G	150	-40	Yes	Yes	O,G	150	-40	Yes	Yes		150	-23	Yes	Yes	-
	Acrylic Powder Paint	150	-40	Yes	Yes	-	150	-40	Yes	Yes	-	150	-40	Yes	Yes		150	-40	Yes	Yes	-
	Acrylonitrile Butadiene Styrene	80	-40	Yes	Yes	O,G	80	-40	Yes	Yes	O,G	80	-40	Yes	Yes	O	80	-	Yes	Yes	-
	Alkyd Paint	150	-40	Yes	Yes	O,G	150	-40	Yes	Yes	O,G	150	-40	Yes	Yes	O	150	-40	Yes	Yes	-
	Aluminum	150	-40	Yes	Yes	O,G	150	-40	Yes	Yes	O,G	150	-40	Yes	Yes	O	150	-40	Yes	Yes	-
	Anodized Aluminum	150	-40	Yes	Yes	O,G	150	-40	Yes	Yes	O,G	-	-	-	-		150	-40	Yes	Yes	-
	Chromate Treated Metal	-	-	-	-	-	-	-	-	-	-	150	-40	Yes	Yes		-	-	-	-	-
	Epoxy Paint	150	-40	Yes	Yes	-	150	-40	Yes	Yes	-	150	-40	Yes	Yes		150	-40	Yes	Yes	-
	Epoxy Powder Paint	150	-40	Yes	Yes	-	150	-40	Yes	Yes	-	150	-40	Yes	Yes	O	150	-23	Yes	Yes	-
	Galvanized Steel	150	-40	Yes	Yes	O,G	150	-40	Yes	Yes	O,G	150	-40	Yes	Yes		150	-40	Yes	Yes	-
	Melamine	100	-40	Yes	Yes	O,G	100	-40	Yes	Yes	O,G	-	-	-	-		100	-40	Yes	Yes	-
	Nylon	100	-40	Yes	Yes	O,G	100	-40	Yes	Yes	O,G	100	-40	Yes	Yes	O	100	-40	Yes	Yes	-
	Phenolic	100	-40	Yes	Yes	-	100	-40	Yes	Yes	-	100	-40	Yes	Yes		100	-40	Yes	Yes	-
	Polybutylene Terephthalate	80	-40	Yes	Yes	O	80	-40	Yes	Yes	O	-	-	-	-		80	-40	Yes	Yes	-
	Polycarbonate	100	-40	Yes	Yes	-	100	-40	Yes	Yes	-	60	-40	Yes	Yes		100	-	Yes	Yes	-
	Polyester Paint	150	-40	Yes	Yes	O	150	-40	Yes	Yes	O	150	-40	Yes	Yes		150	-23	Yes	Yes	-
	Polyester Powder Paint	150	-40	Yes	Yes	-	150	-40	Yes	Yes	-	150	-40	Yes	Yes		150	-40	Yes	Yes	-
	Polyethylene	80	-	Yes	-	-	80	-	Yes	-	O	-	-	-	-		80	-	Yes	-	-
	Polyphenylene Oxide	80	-40	Yes	Yes	-	80	-40	Yes	Yes	-	80	-40	Yes	Yes		80	-40	Yes	Yes	-
	Polypropylene	80	-40	Yes	Yes	O,G	80	-40	Yes	Yes	O,G	80	-40	Yes	Yes	O	80	-	Yes	-	-
	Polystyrene	80	-40	Yes	Yes	O	80	-40	Yes	Yes	O	80	-40	Yes	Yes		80	-40	Yes	Yes	-
	Polyurethane (Urethane) Powder Paint	150	-40	Yes	Yes	-	150	-40	Yes	Yes	-	150	-40	Yes	Yes		150	-40	Yes	Yes	-
	Polyvinyl Chloride (PVC)	80	-40	Yes	Yes	-	80	-40	Yes	Yes	-	-	-	-	-		80	-	Yes	-	-
	Porcelain	150	-40	Yes	Yes	-	150	-40	Yes	Yes	O,G	-	-	-	-		150	-40	Yes	Yes	-
	Stainless Steel	150	-40	Yes	Yes	O,G	150	-40	Yes	Yes	O,G	150	-40	Yes	Yes		150	-40	Yes	Yes	-
	Unsaturated Thermoset Polyester	100	-40	Yes	Yes	O,G	100	-40	Yes	Yes	O,G	150	-40	Yes	Yes		100	-23	Yes	-	-
UL/c-UL/CSA	Electrostatic Coated Metal A, B, C, D	150	-	Yes	Yes	-	150	-	Yes	Yes	-	150	-	Yes	Yes	-	150	-	Yes	Yes	-
	Metals	150	-	Yes	Yes	-	150	-	Yes	Yes	-	150	-	Yes	Yes	-	150	-	Yes	Yes	-
	Plastic Group 1	100	-	Yes	Yes	-	100	-	Yes	Yes	-	100	-	Yes	Yes	-	100	-	Yes	Yes	-
	Plastic Group II, III, IV, V, VI, VII, VIII	80	-	Yes	Yes	-	80	-	Yes	Yes	-	80	-	Yes	Yes	-	80	-	Yes	Yes	-

- (dash) = not tested

Polyester - UL Conditions

		77921: 2 Mil Clear PET TC/S8025/50#SCK				
	Surfaces	**Max Temp C**	**Min Temp C**	**Indoor Use**	**Outdoor Use**	**Addt'l Cond.**
UL - Recognition	Acrylic	60	-40	Yes	Yes	
	Acrylic Paint	150	-40	Yes	Yes	O
	Acrylic Powder Paint					
	Acrylonitrile Butadiene Styrene	80	-40	Yes	Yes	O, G
	Alkyd Paint	150	-40	Yes	Yes	O
	Alkyd Painted Plastic	80	-40	Yes	Yes	
	Aluminum	150	-40	Yes	Yes	O, G
	Anodized Aluminum	150	-40	Yes	Yes	O, G
	Chromate Treated Metal	150	-40	Yes	Yes	
	Epoxy	80	-40	Yes	Yes	
	Epoxy Paint	150	-40	Yes	Yes	
	Epoxy Powder Paint	150	-40	Yes	Yes	O
	Galvanized Steel	150	-40	Yes	Yes	
	Melamine	100	-40	Yes	Yes	
	Nylon	100	-40	Yes	Yes	O, G
	Phenolic	100	-40	Yes	Yes	
	Polybutylene Terephthalate	80	-40	Yes	Yes	O
	Polycarbonate	100	-40	Yes	Yes	
	Polyester Paint	150	-40	Yes	Yes	O
	Polyester Powder Paint	150	-40	Yes	Yes	
	Polyethylene	80		Yes	No	
	Polyethylene - High Density	80	-40	Yes	Yes	O, G
	Polyethylene Terephthalate	80	-40	Yes	Yes	
	Polyphenylene Oxide	80	-40	Yes	Yes	
	Polyphenylene Sulfide	80	-40	Yes	Yes	
	Polypropylene	80	-40	Yes	Yes	O
	Polystyrene	80	-40	Yes	Yes	
	Polyurethane (Urethane) Powder Paint	150	-40	Yes	Yes	
	Polyvinyl Chloride (PVC)	80	-40	Yes	Yes	
	Porcelain	150	-40	Yes	Yes	
	Stainless Steel	150	-40	Yes	Yes	O, G
	Unsaturated Thermoset Polyester	100	-40	Yes	Yes	O
UL/c-UL/CSA	Electrostatic Coated Metal A, B, C, D	150	-	Yes	Yes	
	Metals	150	-	Yes	Yes	
	Plastic Group 1	100	-	Yes	Yes	
	Plastic Group II, III, IV, V, VI, VII, VIII	80	-	Yes	Yes	

- (dash) = not tested

Notes:
O - Occasional exposure to lubricating oil
G - Occasional exposure to gasoline splashing
DD - Occasional exposure to dish detergent
DL - Occasional exposure to laundry detergent

Step 2

Cross reference with application's surface and UL/c-UL/CSA conditions

Polypropylene - UL Conditions

		78401: 3 Mil Synthetic Paper/S8001/50#SCK				**78403:** 2.3 Mil White BOPP TC/S8001/50#SCK			
	Surfaces	**Max Temp C**	**Min Temp C**	**Indoor Use**	**Outdoor Use w/ Overlam®**	**Max Temp C**	**Min Temp C**	**Indoor Use**	**Outdoor Use w/ Overlam®**
UL-Recognition	Acrylic Paint	80	-40	Yes	-	100	-40	Yes	-
	Acrylic Plastic	60	-40	Yes	-	60	-40	Yes	-
	Acrylic Powder Paint	80	-40	Yes	-	100	-40	Yes	-
	Acrylonitrile Butadiene Styrene	80	-40	Yes	-	80	-40	Yes	-
	Alkyd Enamel Paint	80	-40	Yes	-	100	-40	Yes	-
	Aluminum	80	-40	Yes	-	100	-40	Yes	-
	Anodized Aluminum	80	-40	Yes	-				
	Ethylene Vinyl Acetate	80	-40	Yes	-	60	-40	Yes	-
	Epoxy Paint	80	-40	Yes	-	100	-40	Yes	-
	Epoxy Powder Paint	80	-40	Yes	-	100	-40	Yes	-
	Galvanized Steel	80	-40	Yes	-	100	-40	Yes	-
	Glass	80	-40	Yes	-	100	-40	Yes	-
	Melamine	80	-40	Yes	-	80	-40	Yes	-
	Nylon	80	-40	Yes	-	100	-40	Yes	-
	Phenolic	80	-40	Yes	-	100	-40	Yes	-
	Polybutylene Terephthalate	80	-40	Yes	-	80	-40	Yes	-
	Polycarbonate	80	-40	Yes	-	100	-40	Yes	-
	Polyester Paint	80	-40	Yes	-	100	-40	Yes	-
	Polyester Powder Paint	80	-40	Yes	-	100	-40	Yes	Yes
	Polyethylene Terephthalate	80	-40	Yes	-	80	-40	Yes	-
	Polyphenylene Oxide	80	-40	Yes	-	80	-40	Yes	-
	Polypropylene	80	-40	Yes	-	80	-40	Yes	-
	Polystyrene	80	-40	Yes	-	80	-40	Yes	-
	Polyurethane Paint	80	-40	Yes	-	100	-40	Yes	-
	Polyurethane (Urethane) Powder Paint	80	-40	Yes	-	100	-40	Yes	Yes
	Polyvinyl Chloride	80	-40	Yes	-	80	-40	Yes	-
	Porcelain	80	-40	Yes	-	100	-40	Yes	-
	Southern Yellow Pine	-	-	-	-	100	-40	Yes	-
	Stainless Steel	80	-40	Yes	-	100	-40	Yes	Yes
	Tedlar (Polyvinyl Fluoride)	80	-40	Yes	-	100	-40	Yes	-
	Unsaturated Thermoset Polyester	80	-40	Yes	-	100	-40	Yes	-
	Urethane Powder Paint	80	-40	Yes	-				
UL/c-UL/CSA	Metals	-	-	-	-	100		-	-
	Electrostatic Coated Metal A, B, C, D	-	-	-	-	100		-	-
	Plastic Group 1	-	-	-	-	80		-	-
	Plastic Group II, III, IV, V, VI, VII, VIII	-	-	-	-	80		-	-

- (dash) = not tested

Vinyl - UL Conditions

Notes:
O - Occasional exposure to lubricating oil
G - Occasional exposure to gasoline splashing
DD - Occasional exposure to dish detergent
F1 - Occasional exposure to fuel oil 1
F2 - Occasional exposure to fuel oil 2
K - Occasional exposure to kerosene
C - Occasional exposure to cooking oil

		79648: 4 Mil White Flex Vinyl TCD/S8025/50#SCK				
	Surfaces	**Max Temp C**	**Min Temp C**	**Indoor Use**	**Outdoor Use**	**Addt'l Cond.**
UL-Recognition	Acrylic Paint	100	-40	Yes	Yes	O, DL, F1, F2, K
	Acrylic Plastic	80	-40	Yes	Yes	-
	Acrylic Powder Paint	100	-40	Yes	Yes	-
	Acrylonitrile Butadiene Styrene	80	-40	Yes	Yes	O, DL, F1, F2, K, C
	Alkyd Enamel Paint					
	Aluminum	100	-40	Yes	Yes	O, DL, F1, F2, K, C
	Anodized Aluminum					
	Ethylene Vinyl Acetate					
	Epoxy Paint	100	-40	Yes	Yes	O, DL
	Epoxy Powder Paint	100	-40	Yes	Yes	O, F1, F2, K
	Epoxy Powder Paint (Textured)	100	-40	Yes	Yes	DL
	Galvanized Steel	100	-40	Yes	Yes	O, DL, F1, F2, K, C
	Glass	100	-40	Yes	Yes	-
	Melamine	100	-40	Yes	Yes	O, DL
	Nylon	100	-40	Yes	Yes	O, DL, F1, F2, K
	Phenolic	100	-40	Yes	Yes	-
	Polybutylene Terephthalate					
	Polycarbonate	100	-40	Yes	Yes	-
	Polyester Paint	100	-40	Yes	Yes	O, DL, F1, F2, K
	Polyester Powder Paint	100	-40	Yes	Yes	
	Polyethylene Terephthalate					
	Polyphenylene Oxide	80	-40	Yes	Yes	O, F1, F2, K
	Polypropylene	80	-40	Yes	Yes	O, DL, F1, F2, K
	Polystyrene	80	-40	Yes	Yes	O, DL, F1, F2, K
	Polyurethane Paint					
	Polyurethane (Urethane) Powder Paint	100	-40	Yes	Yes	
	Polyvinyl Chloride	80	-40	Yes	Yes	-
	Porcelain	100	-40	Yes	Yes	O, DL, F1, F2, K
	Southern Yellow Pine					
	Stainless Steel	100	-40	Yes	Yes	O, DL, F1, F2, K, C
	Tedlar (Polyvinyl Fluoride)					
	Unsaturated Thermoset Polyester	100	-40	Yes	Yes	O, F1, F2, K, C
	Urethane Powder Paint					
UL/c-UL/CSA	Metals	100		Yes	Yes	O, DL, F1, F2, K, C
	Electrostatic Coated Metal A, B, D	100		Yes	Yes	
	Electrostatic Coated Metal C	100		Yes	Yes	O, F1, F2, K
	Plastic Group 1	100		Yes	Yes	
	Plastic Group 2	80		Yes	Yes	O, F1, F2, K
	Plastic Group 3	80		Yes	No	O, DL
	Plastic Group 4	80		Yes	No	O, DL, F1, F2, K
	Plastic Group 5	80		Yes	No	O, DL, F1, F2, K, C
	Plastic Group 6	80		Yes	No	O, DL, F1, F2, K, C
	Plastic Group 7	80		Yes	No	
	Plastic Group 8	80		Yes	No	O, F1, F2, K

- (dash) = not tested

Step 3 Select ink system

With Overlaminate

	Manufacturer	Inks	**78401:** 3 Mil Synthetic Paper S8001/50# SCK Indoor	**78403:** 2.3 Mil White BOPP TC/ S8001/50# SCK Indoor	**78385:** 2 Mil White PET TC/ S8001/50#SCK Indoor	**78385:** 2 Mil White PET TC/ S8001/50#SCK Outdoor	**79648:** 4 Mil White Flex Vinyl TCD S8025 50#SCK Indoor	**79648:** 4 Mil White Flex Vinyl TCD S8025 50#SCK Outdoor	**78387:** 2 Mil Matte Chrome PET TC/S8001 **77922:** 2 Mil Matte Chrome PET TC/S8025 Indoor	**78387:** 2 Mil Matte Chrome PET TC/S8001 **77922:** 2 Mil Matte Chrome PET TC/S8025 Outdoor	**76656:** 2 Mil White PET TC/ S8015/50#SCK **76660:** 2 Mil Matte Chrome PET TC/S8015/50#SCK Indoor	**76656:** 2 Mil White PET TC/ S8015/50#SCK **76660:** 2 Mil Matte Chrome PET TC/S8015/50#SCK Outdoor
UL-Recognition	EFI Jetrion	4000 Series UV Inkjet	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	EFI Jetrion	4950 Series LED Inkjet	All Colors	All Colors	All Colors	All Colors	-	-	All Colors	All Colors	All Colors	All Colors
	Siegwerk EIC	DR III FR	All Colors	All Colors	BK, BL, RD	BK, BL, RD	BK, BL	BK, BL	BK, BL, RD	BK, BL, RD	BK, BL, RD	BK, BL, RD
	Siegwerk EIC	Films III	-	-	BK, BL, RD	BK, BL	BK, BL, RD	BK, BL	BK, BL, RD	BK, BL, RD	BK, BL, RD	BK, BL, RD
	Siegwerk EIC	UV 39-5	All Colors	All Colors	-	-	All Colors	All Colors	-	-	-	-
	Domino	UV90	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	Flint	HydroFilm ACE	All Colors	All Colors	BK, BL, RD	BK, BL, RD	All Colors	All Colors	BK, BL, RD	BK, BL, RD	BK, BL, RD	BK, BL, RD
	Flint	Flexocure Force	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	ACTEGA WIT	VersiFilm Plus ULF	All Colors	All Colors	BK, BL, RD	BK, BL, RD	BK,BL	BK,BL	BK, BL, RD	BK, BL, RD	BK, BL, RD	BK, BL, RD
	Durst	TAU 330 HD					All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	ACTEGA WIT	Pharmaflex UV	BK, BL, RD	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	Wikoff	PolyTech XR		All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	Wikoff	Photoflex		All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	Mark Andy	Digital Series HD	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	Mark Andy	Digital Series Ink	All Colors	All Colors	All Colors	All Colors	-	-	All Colors	All Colors	-	-
	Durst	Tau 330 STD UV	All Colors	All Colors	All Colors	All Colors	-	-	All Colors	All Colors	-	-
UL/c-UL/CSA Recognition	EFI Jetrion	4000 Series UV Inkjet	-	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	EFI Jetrion	4950 Series LED Inkjet		All Colors	All Colors	All Colors	-	-	All Colors	All Colors	-	-
	Siegwerk EIC	DR III FR	-	-	BK, BL, RD	BK, BL, RD	BK,BL	BK,BL	BK, BL, RD	BK, BL, RD	BK, BL, RD	BK, BL, RD
	Durst	TAU 330 HD					All Colors	All Colors	All Colors	All Colors	-	-
	Siegwerk EIC	Films III	-	-	-	-	BK,BL,RD	BK,BL	BK, BL, RD	BK, BL, RD	-	-
	Siegwerk EIC	UV 39-5		All Colors	-	-			-	-	-	-
	Domino	UV 90			All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	-	-
	Flint	HydroFilm ACE	-	-	BK, BL, RD	BK, BL, RD	All Colors	All Colors	BK, BL, RD	BK, BL, RD	BK, BL, RD	BK, BL, RD
	Flint	Flexocure Force	-	-	-	-	All Colors	All Colors	-	-	-	-
	ACTEGA WIT	VersiFilm Plus ULF	-	-	BK, BL, RD	BK, BL, RD	BK,BL	BK,BL	BK, BL, RD	BK, BL, RD	BK, BL, RD	BK, BL, RD
	ACTEGA WIT	Pharmaflex UV	-	-	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	Wikoff	PolyTech XR		-	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	Wikoff	Photoflex		-	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	Mark Andy	Digital Series HD			All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	-	-
	Mark Andy	Digital Series Ink	All Colors	All Colors	All Colors	All Colors	-	-	All Colors	All Colors	All Colors	All Colors
	Durst	Tau 330 STD UV			All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors

- (dash) = not tested

BK: Black, BL: Blue, RD: Red, YL: Yellow

With Overlaminate

	Manufacturer	Inks	**77921:** 2 Mil Clear PET TC/S8025/50#SCK Indoor	**77921:** 2 Mil Clear PET TC/S8025/50#SCK Outdoor	**79453:** 2 Mil White PET TC/S8049/50#SCK **79534:** 2 Mil Matte Chrome TC/S8049/50#SCK Indoor	**79453:** 2 Mil White PET TC/S8049/50#SCK **79534:** 2 Mil Matte Chrome TC/S8049/50#SCK Outdoor	**78981:** 2 Mil White PET TCD/S8025/50#SCK Indoor	**78981:** 2 Mil White PET TCD/S8025/50#SCK Outdoor
UL-Recognition	EFI Jetrion	4000 Series UV Inkjet	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	EFI Jetrion	4950 Series LED Inkjet	All Colors	All Colors	All Colors	All Colors		
	Siegwerk EIC	DR III FR	BK, BL	BK, BL			BK, BL, YL	All Colors
	Siegwerk EIC	Films III	BK, BL	BK, BL				
	Siegwerk EIC	UV 39-5	BK, BL	BK, BL				
	Flint	Hydrofilm ACE™	All Colors	All Colors			BK, BL, RD	All Colors
	Flint	Flexocure FORCE™	All Colors	All Colors			All Colors	All Colors
	ACTEGA WIT	VersiFilm Plus ULF	All Colors	All Colors	BK, BL, RD	BK, BL, RD	BK, BL, RD	All Colors
	Durst	-	-	-			All Colors	All Colors
	ACTEGA WIT	PharmaFlex UV	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	Wikoff	PolyTech XR	All Colors	All Colors				
	Wikoff	Photoflex	All Colors	All Colors				
	Mark Andy	Digital Series Ink	-	-	All Colors	All Colors		
	Mark Andy	Digital Series HD	All Colors	All Colors				
	Domino	UV90	All Colors	All Colors				
	Durst	Tau 330	All Colors	All Colors	All Colors	All Colors		
UL/c-UL/CSA Recognition	EFI Jetrion	4000 Series UV Inkjet	All Colors	All Colors			All Colors	All Colors
	EFI Jetrion	4950 Series LED Inkjet	All Colors	All Colors				
	Siegwek EIC	DR III FR	BK, BL	BK, BL			BK, BL, RD	All Colors
	Siegwerk EIC	Films III	BK, BL	BK, BL				
	Durst	-	All Colors	All Colors				
	Siegwerk EIC	UV 39-5	BK, BL	BK, BL				
	Flint	Hydrofilm ACE™	All Colors	All Colors			BK, BL, RD	All Colors
	Flint	Flexocure FORCE™	All Colors	All Colors				
	ACTEGA WIT	VersiFilm Plus ULF	All Colors	All Colors	BK, BL, RD	BK, BL, RD	BK, BL, RD	All Colors
	ACTEGA WIT	PharmaFlex UV	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	Wikoff	PolyTech XR	All Colors	All Colors				
	Wikoff	Photoflex	All Colors	All Colors				
	Mark Andy	Digital Series Ink	-	-	All Colors	All Colors		
	Mark Andy	Digital Series HD	All Colors	All Colors				
	Domino	UV90	All Colors	All Colors				
	Durst	Tau 330	-	-	All Colors	All Colors	All Colors	All Colors

- (dash) = not tested

BK: Black, BL: Blue, RD: Red, YL: Yellow

Step 3 Select ink system

Without Overlaminate

	Manufacturer	Inks	**78401:** 3 Mil Synthetic Paper/ S8001/ 50#SCK	**78403:** 2.3 Mil White BOPP TC/ S8001	**78385:** 2 Mil White PET TC/S8001/50#SCK **77920:** 2 Mil White PET TC/S8025/50#SCK		**78387:** 2 Mil Matte Chrome PET TC/S8001/50#SCK **77922:** 2 Mil Matte Chrome PET TC/S8025/50#SCK		**77921:** 2 Mil Clear PET TC/S8025/50#SCK		**79648:** 4 Mil White Flex Vinyl TCD S8025 50#SCK		**79453:** 2 Mil White PET TC/S8049/50#SCK **79534:** 2 Mil Matte Chrome TC/ S8049/50#SCK		**78981:** 2 Mil White PET TCD/ S8025/50#SCK	
			Indoor	**Indoor**	**Indoor**	**Outdoor**	**Indoor**	**Outdoor**	**Indoor**	**Outdoor**	**Indoor**	**Outdoor**	**Indoor**	**Outdoor**	**Indoor**	**Outdoor**
UL-Recognition	EFI Jetrion	4000 Series UV Inkjet	All Colors	All Colors	All Colors	BK, BL	All Colors	All Colors	All Colors	All Colors	All Colors	BK,BL,RD	All Colors	BK,BL	All Colors	All Colors
	EFI Jetrion	4950 Series LED Inkjet	All Colors	All Colors	All Colors	BK	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	BK	all colors	All Colors
	Siegwerk EIC	DR III FR	All Colors	All Colors	All Colors	BK, BL	All Colors	BK, BL, RD	All Colors	BK, BL	BK,BL	BK,BL	–	–	BK, BL, YL	BK, BL, YL
	Mark Andy	Digital Series HD	All Colors	All Colors	All Colors	BK	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	BK		
	Siegwerk EIC	UV 39-5	All Colors	BK, BL	–	–	–	–	All Colors	BK, BL	All Colors	BL,BL	–	–	All Colors	BK, BL
	Siegwerk EIC	Films III	–	–	BK, BL, RD	BK, BL	BK, BL, RD	BK, BL	All Colors	BK, BL, YL	BK,BL,RD	BK,BL	–	–	All Colors	BK
	Durst	TAU 330 HD	–	–	–	–	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	–	–		
	Flint	Hydrofilm ACE™	All Colors	All Colors	BK, BL, RD	BK, BL, RD	All Colors	All Colors	All Colors	All Colors	BK,BL,RD	BK,BL,RD	–	–	All Colors	All Colors
	Flint	Flexocure FORCE™	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	BK, BL, YL	All Colors	All Colors	–	–	All Colors	All Colors
	ACTEGA WIT	VersiFilm Plus ULF	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	BK,BL,RD	BK,BL	All Colors	All Colors	All Colors	All Colors
	ACTEGA WIT	PharmaFlex UV	All Colors	All Colors	BK, BL, RD	BK, BL, RD	BK, BL, RD	BK, BL, RD	All Colors	All Colors	All Colors	BK,BL	BK, BL, RD	BK, BL, RD	All Colors	All Colors
	Mark Andy	Digital Series Ink	All Colors	All Colors	All Colors	–	All Colors	All Colors	–	–	–	–	All Colors	–		
	Wikoff	PolyTech XR		All Colors	All Colors	BK	All Colors	BK, RD	All Colors	BK, BL, RD	BK,BL,RD	BK,BL,RD	–	–		
	Wikoff	PhotoFlex		All Colors	All Colors	BK	All Colors	BK, BL, RD	All Colors	BK, BL, RD	All Colors	All Colors	–	–		
	Mark Andy	Digital Series HD	All Colors	All Colors	All Colors	BK	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	BK		
	Domino	UV 90	All Colors	All Colors	All Colors	BK, RD	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	BK, RD		
	Durst	Tau 330	All Colors	All Colors	All Colors	–	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	–	All Colors	All Colors
UL/c-UL/CSA Recognition	EFI Jetrion	4000 Series UV Inkjet	–	All Colors	All Colors	BK, BL	All Colors	All Colors	All Colors	All Colors	All Colors	BK,BL,RD	All Colors	All Colors	All Colors	All Colors
	EFI Jetrion	4950 Series LED Inkjet		All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors
	Siegwerk EIC	DR III FR	–		No Pass	No Pass	as - s	- ss	–	–	BK,BL	BK,BL	BK, BL, RD	BK, BL, RD	BK, BL, YL	BK, BL, YL
	Durst	TAU 330 HD			No Pass	No Pass	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors		
	Siegwerk EIC	UV 39-5					–	–	BK, BL, YL	BK, BL	BK,BL	BK,BL	–	–	BK, BL	BK, BL
	Siegwerk EIC	Films III	–	–	–	–	–	–	–	–	BK,BL,RD	BK,BL	BK,BL,RD	BK, BL	BK, BL, YL	All Colors
	Flint	Hydrofilm ACE™	–		No Pass	No Pass	No P-ass	No P-ass	–	–	BK,BL,RD	BK,BL,RD	BK,BL,RD	BK,BL,RD		
	Flint	Flexocure FORCE™	–		–		–	–	All Colors	BK, BL, YL	All Colors	All Colors	All Colors	All Colors		
	ACTEGA WIT	VersiFilm Plus ULF	–		No Pass	No Pass	No-ss	No P-ass	–	–	BK,RD	BK	BK,BL,RD	BK,BL,RD	All Colors	All Colors
	ACTEGA WIT	Pharmaflex UV	All Colors	All Colors	BK, BL	BK, BL	BK, BL	BK, BL	All Colors	All Colors	BK,BL	BK,BL	All Colors	All Colors	All Colors	All Colors
	Mark Andy	Digital Series Ink	All Colors	All Colors	All Colors		All Colors	All Colors	–	–	–	–	All Colors	All Colors		
	Mark Andy	Digital Series HD	–	–	All Colors	BK	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors		
	Domino	UV 90	–	–	All Colors	BK, RD	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors	All Colors		
	Wikoff	PolyTech XR			–	–	–	–	–	–	BK,BL,RD	BK,BL,RD	All Colors	All Colors		
	Wikoff	PhotoFlex			–	–	All Colors	BK, BL, RD	All Colors	BK, BL, YL	All Colors	All Colors	All Colors	All Colors		
	Durst	Tau 330			All Colors		All Colors	All Colors	–	–	–	–	All Colors	All Colors	All Colors	All Colors

 *Thermal transfer ribbons were tested on Polyesters and Polypropylenes without an overlaminate, - (dash) = not tested BK: Black, BL: Blue, RD: Red, YL: Yellow

Step 4 Select thermal transfer ribbon

	Manufacturer	Ribbons	Ribbons	Ribbons	Ribbons	Ribbons
		77920: 2 Mil White PET TC/S8025/50#SCK **77922:** 2 Mil Matte Chrome PET TC/ S8025/50#SCK **77921:** 2 Mil Clear PET TC/S8025/50#SCK **78385:** 2 Mil White PET TC/S8001/50#SCK **78387:** 2 Mil Matte Chrome PET TC/ S8001/50#SCK	**78401:** 3 Mil Synthetic Paper/ S8001/50#SCK (a) **78403:** 2.3 Mil White BOPP TC/ S8001/50#SCK (b)	**77844:** 1 Mil Clear Print-Treated PET/S8020/40#BG	**79453:** 2 Mil White PET TC/ S8049/50#SCK **79534:** 2 Mil Matte Chrome TC/ S8049/50#SCK	**79648:** 4 Mil White Flex Vinyl TCD S8025 50#SCK
UL Recognition	Armor	AXR8, AXR600, AXR7+, AXR1	AXR-7+ (a & b), AXR1 (b only)	AXR600, AXR 7+, AXR 8	AXR600, AXR 7+, AXR 8, AXR1	AXR 600 , AXR 7+ , AXR 8, AXR1
	Astro-Med	RF, RY, RAF Blue, R-5		RY, R-5	RF, RY	RF, RY
	Coding Products	5940, 5640 Blue, 5440 Red, 7996	7996 (b only)	5940, 7996	5940, 5640 Blue, 5440 red	5940, 7996
	DNP	R-300, R-510, R-510 Green, R-510 Red (indoor only), R-510 Blue, TR-4070, TR-6075, TR-6070, R-510HF, Signature Series Resin	R510 (a & b), TRX-55 (a & b)	R-300	R-300, R-510, R-510 Green, R-510 Red, R-510 Blue, TR4070, TR6070, TR6075	R300, R510, R510 HF, TR4070
	Datamax	SDR-A, SDR-D, SDR-5, SDR-6, SDR, SDR Millenium		SDR, SDR Millennium, SDR-5, SDR-6, SDR-7, SDR-A, SDR-D	SDR, SDR Millennium, SDR-5, SDR-6, SDR-7, SDR-A, SDR-D	SDR , SDR-A , SDR-D
	iimak	SP-330, SP-410, Prime Mark, SP575	SP-330, SP-575 (b only)	SP-330, SP-575	SP-330, SP-575, Prime Mark, Prime Mark 255	SP-330 , SP-575
	Intermec	TMX 3200, TMX 1500			TMX3200, TMX1500	
	ITW	B324, B325, B813, B814	B324 (a & b), B325, B813, B814 (b only)	B324, B325, B813, B814	B324, B-128, B325	B324, B325, B813, B814
	Kurz	K-300, K-500, K-501		K-500	K-300, K-500, K-501	
	NCR	Promark 3, Pacesetter, Ultra V, Matrix Resin, Perma Max, K3		Promark 3, Pacesetter, Ultra V, Matrix Resin	Promark 3, Pacesetter, Ultra V, Matrix Resin, Perma Max	
	Peak	Ultra Premium, Ultra Extreme		Ultra Premium	Ultra Premium, Ultra Extreme	
	Ricoh	B110C, B110CR, B120EC, B110CX	B110C (a & b)	B110C, B110CR,	B110C, B110CR, B120EC, B110CX	B110C, B110CR
	Sato	Premier 1		Premier 1	Premier 1	Premier 1
	Zebra	5095, 5100, 5463, Z-1400, Z-3100, Z-4100, 5555		5095, 5175, 5100, 5555, Z-4100	5095, 5175, 5100, 5555, Z3100, Z-4100	5095, 5100
UL/c-UL/CSA Recognition	Armor	AXR8, AXR600, AXR-7+, AXR1	AXR-7+ (b only), ARX1 (b only)	AXR8, AXR600, AXR-7+	AXR8, AXR600, AXR-7+, AXR1	AXR 600, AXR 7+, AXR 8, AXR1
	Astro-Med	RY, RAF Blue		RY	RY, RAF Blue	RY
	Coding Products	5640 Blue, 5440 Red, 7996		5940, 7996	5640 Blue, 5440 Red	5940, 7996
	DNP	R-300, R-510, R-510-HF R-510 Green, R-510 Red (indoor only), R-510 Blue, TR-4070, TR-6075, TR-6070, Signature Series™ Resin	R-510 (b only)	R-300	R-300, R-510, R-510 Green, R-510 Red, R-510 Blue, TR4070, TR6070, TR6075	R300, R510, R510 HF, TR4070
	Datamax	SDR-A, SDR-D, SDR-5, SDR-6, SDR, SDR Millenium		SDR-A, SDR-D, SDR-6, SDR, SDR-7, SDR-4	SDR-A, SDR-D, SDR-6, SDR, SDR-7, SDR-5, SDR Millenium	SDR , SDR-A SDR-D
	iimak		SP-330, SP-575 (b only)	SP-330 , SP-575		SP-330, SP-575
	ITW	B325, B813	B324, B813, B814 (b only)	R-90, B324, B813, B814	R-90, B325	B324 , B325, B813, B814
	Kurz			K-500	K-500	
	NCR	Promark 3, Pacesetter, Ultra V, Matrix Resin, Perma Max, K3		Promark 3	Promark 3	
	Peak	Ultra Premium, Ultra Extreme		Ultra Premium	Ultra Premium	
	Ricoh	B110C, B110CR, B1230EC, B110CX	B110C (b only)	B110C	B110C, B110CR	B110C, B110CR
	Sato	Premier 1		Premier 1	Premier 1	Premier 1
	Zebra	5095, 5100, 5463, Z-1400, Z-3100, Z-4100, 5555		Z-4100, 5095	5100	5095, 5100

*Thermal transfer ribbons were tested on Polyesters and Polypropylenes without an overlaminate, - (dash) = not tested

Step 5

Submit label adoption request with Avery Dennison file number and product description to UL/CSA.

With the UL/CSA's flat fee pricing, a simple product adoption is more economical than ever. When specific minimum purchase conditions are met, we'll even reimburse your company for the basic adoption fee - reducing your transfer cost to zero. Need an additional surface or ink? We can guide you through the process.

Contact UL/CSA to initiate a label adoption project. If necessary, contact your Avery Dennison representative for assistance.

label.averydennison.com

ADV# 292 03/2020

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