

Avery Dennison Durables

Core Range Application Guide

THE CHOICE IS YOURS

Avery Dennison offers a wide range of different face materials and adhesive technologies to help you cost-effectively meet your customer's application requirements. Flexible service offerings mean you can buy exactly the product you need.

THE CHALLENGE

Avery Dennison materials will deliver consistent performance in the harshest application conditions:

- » excellent initial tack
- » adhesion even to low surface energy materials
- » excellent printability
- » supports resistance to chemicals, heat, UV and other challenges

OUTSTANDING ADHESIVE TECHNOLOGY

Selecting the right durables labelling performance begins with adhesives that offer a solution for virtually any surface, with applications that range from identification, information and tracking through to branding and functional uses.

A choice of many different adhesive technologies means that both technical and market-driven challenges can be met more easily, whether you are designing cost-effective and straightforward applications or high-end speciality products.

PROVEN PERFORMANCE

Many of Avery Dennison's products have been tested and are compliant to UL and CSA standards. In addition a number of automotive OEM standards have been achieved across a selected range of products.



FACESTOCKS THAT PERFORM

Selecting the most appropriate material for an application first means choosing a facestock from Avery Dennison's wide range – a facestock that is precisely matched to your requirements and which balances cost against performance criteria.



Polyester Films

Polyester films are available in both gloss and matt finishes. Print-treated films are suitable for basic printing performance and chemical resistance. Where higher performance and durability are required, topcoated films are available.

Gloss white Polyester Materials		Code	Topcoat (TC) / Print Treatment (PT)	Adhesive Technology (Solv./Em.-Acrylic)	Min. Application temp. (g/m ²)	Min. Service temp. (°C)	Max. Service temp. (°C)	Rough surfaces	Apolar surfaces	Curved surfaces (low surface tension)	Slightly dirty or oily surfaces	UL-approval	EXACT	Ready Width	FTO
Good	Transfer PET white PT16 / S8007 / BG40wh	BD843	PT	Em.	19	+5	-40	+120				Y	●		
	Transfer PET white PT / S8020 / BG42wh	AA639	PT	Em.	20	+5	-40	+150	○			Y	●		
	Transfer PET white TOP / S8020 / BG42wh	AA641	TC	Em.	20	+5	-40	+150	○			Y	●		
Better	Transfer PET white PT / S8002 / BG42wh	BL805	PT	Em.	27	+5	-40	+150	○	●	○	Y		●	
	Transfer PET white TOP / S8002 / BG42wh	BJ330	TC	Em.	27	+5	-40	+150	○	●	○	Y	●		
	Transfer PET white TCB / S8040 / BG65EM	BD188	TC	Solv.	25	+5	-40	+150							●
	Transfer PET white PT / S8030 / BG42wh	AD225	PT	Solv.	24	+5	-40	+150		●		Y			●
	Transfer PET white TOP / S8030 / BG42wh	AD222	TC	Solv.	24	+5	-40	+150		●		Y		●	
Best	Transfer PET white PT / AL170 / BG42wh	AA640	PT	Solv.	24	0	-80	+150			○	Y			●
	Transfer PET white TOP / AL170 / BG42wh	AA642	TC	Solv.	24	0	-80	+150			○	Y	●		
	Transfer PET white PT / S8015 / BG42wh	AA668	PT	Solv.	32	+7	-40	+150	●	●		Y		●	
	Transfer PET white TOP / S8015 / BG42wh	AA670	TC	Solv.	32	+7	-40	+150	●	●		Y		●	
	Transfer PET white TOP / S8029 / BG45wh	BN947	TC	Solv.	27	+5	-40	+150	●	●	○	○	Y		
	Transfer PET white TOP / S8049 / BG42wh BSS	AJ059	TC	Solv.	45	+5	-40	+150	●	●	○	●	Y		●

■ ■ ■ Good / Better / Best is a relative comparison of overall performance within the Avery Dennison Durables product range
* Contact your sales representative for details

○ recommended
● highly recommended
● preferred choice

Ex EXACT
RW Ready Width
FTO MOQ 300 sqm



Polyester Films

Topcoat (TC) / Print Treatment (PT)
 Adhesive Technology (Solv./Em.-Acrylic)
 Adhesive coatweight (g/m²)
 Min. Application temp. (°C)
 Min. Service temp. (°C)
 Max. Service temp. (°C)
 Rough surfaces
 Apolar surfaces
 Curved surfaces (low surface tension)
 Slightly dirty or oily surfaces
 UL-approval
 EXACT
 Ready Width
 FTO

Matt white Polyester Materials

Good	Transfer PET matt white / S8020 / BG42wh	AA643	TC	Em.	20	+5	-40	+150											
Better	Transfer PET matt white TC6 / S8002 / BG42wh	BL802	TC	Em.	27	+5	-40	+150		●	○			Y	●				
	Transfer PET matt white TCA / S8040 / BG65EM	BD187	TC	Solv.	25	+5	-40	+150											●
	Transfer PET matt white TC6 / S8030 / BG42wh	AN754	TC	Solv.	24	+5	-40	+150		●				Y					●
	Transfer PET matt white / S8030 / BG42wh	AD223	TC	Solv.	24	+5	-40	+150		●				Y					●
Best	Transfer PET matt white / AL170 / BG42wh	AA145	TC	Solv.	24	0	-80	+150				○		Y	●				
	Transfer PET 75 matt white / AL170 / BG42wh	Al397	TC	Solv.	24	0	-80	+150				○		Y					●
	Transfer PET matt white / S8015 / BG42wh	AA672	TC	Solv.	32	+7	-40	+150	●	●				Y					●
	Transfer PET 75 matt white / S8015 / BG42wh	Al399	TC	Solv.	32	+7	-40	+150	●	●				Y					●
	Transfer PET matt white / S8029 / BG45wh	BN949	TC	Solv.	27	+5	-40	+150	●	●	○	○		Y					
	Transfer PET matt white / S8049 / BG42wh BSS	AL854	TC	Solv.	45	+5	-40	+150	●	●	○	●		Y					●
	Transfer PET 75 matt white / S8049 / BG42wh BSS	AL851	TC	Solv.	45	+5	-40	+150	●	●	○	●		Y					●

Chrome Polyester Materials

Good	Transfer PET bright chrome TOP / S8030 / BG42wh	AE366	TC	Solv.	24	+5	-40	+150		●				Y					●
	Transfer PET matt chrome PT12 / S8007 / BG40wh	AP062	PT	Em.	19	+5	-40	+120						Y					●
Better	Transfer PET matt chrome TOP / S8020 / BG42wh	AA644	TC	Em.	20	+5	-40	+150			○			Y	●				
	Transfer PET matt chrome TOP / S8002 / BG42wh	BL799	TC	Em.	27	+5	-40	+150	○	●	○			Y	●				
	Transfer PET matt chrome TOP / S8040 / BG65EM	BD186	TC	Solv.	25	+5	-40	+150											●
Best	Transfer PET matt chrome TOP / S8030 / BG42wh	AD221	TC	Solv.	24	+5	-40	+150		●				Y					●
	Transfer PET matt chrome TOP / AL170 / BG42wh	AA645	TC	Solv.	24	0	-80	+150				○		Y					●
	Transfer PET matt chrome TOP / S8015 / BG42wh	AA674	TC	Solv.	32	+7	-40	+150	●	●				Y					●
	Transfer PET matt chrome TOP / S8029 / BG45wh	BH781	TC	Solv.	27	+5	-40	+150	●	●	○	○		Y					
	Transfer PET matt chrome TOP/S8049/BG42wh BSS	AL852	TC	Solv.	45	+5	-40	+150	●	●	○	●		Y					●

Silver Polyester Materials

Good	Transfer PET matt silver / S8020 / BG42wh	AA646	TC	Em.	20	+5	-40	+150			○			Y	●				
Better	Transfer PET matt silver / S8030 / BG42wh	AD224	TC	Solv.	24	+5	-40	+150		●				Y					●
Best	Transfer PET matt silver / AL170 / BG42wh	AA146	TC	Solv.	24	0	-80	+150				○		Y	●				
	Transfer PET 75 matt silver / AL170 / BG42wh	Al398	TC	Solv.	24	0	-80	+150				○		Y					●
	Transfer PET matt silver / S8015 / BG42wh	AA676	TC	Solv.	32	+7	-40	+150	●	●				Y					●
	Transfer PET 75 matt silver / S8015 / BG42wh	Al400	TC	Solv.	32	+7	-40	+150	●	●				Y					●
	Transfer PET matt silver / S8029 / BG45wh	BN950	TC	Solv.	27	+5	-40	+150	●	●	○	○		Y					
	Transfer PET matt silver / S8049 / BG42wh BSS	AJ060	TC	Solv.	45	+5	-40	+150	●	●	○	●		Y					●
	Transfer PET 75 matt silver / S8049 / BG42wh BSS	AL850	TC	Solv.	45	+5	-40	+150	●	●	○	●		Y					●

Transparent Polyester Materials

Good	Transfer PET trans TOP / S8020 / BG42wh	AC397	TC	Em.	20	+5	-40	+150			○			Y	●				
Better	Transfer PET trans TOP / S8002 / BG42wh	BL806	TC	Em.	27	+5	-40	+150	○	●	○			Y					Coat to Order
	Transfer PET trans TOP / S8030 / BG42wh	AD220	TC	Solv.	24	+5	-40	+150		●				Y					●
Best	Transfer PET trans TOP / AL170 / BG42wh	AC393	TC	Solv.	24	0	-80	+150				○		Y					●

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○ recommended
 ● highly recommended
 ● preferred choice

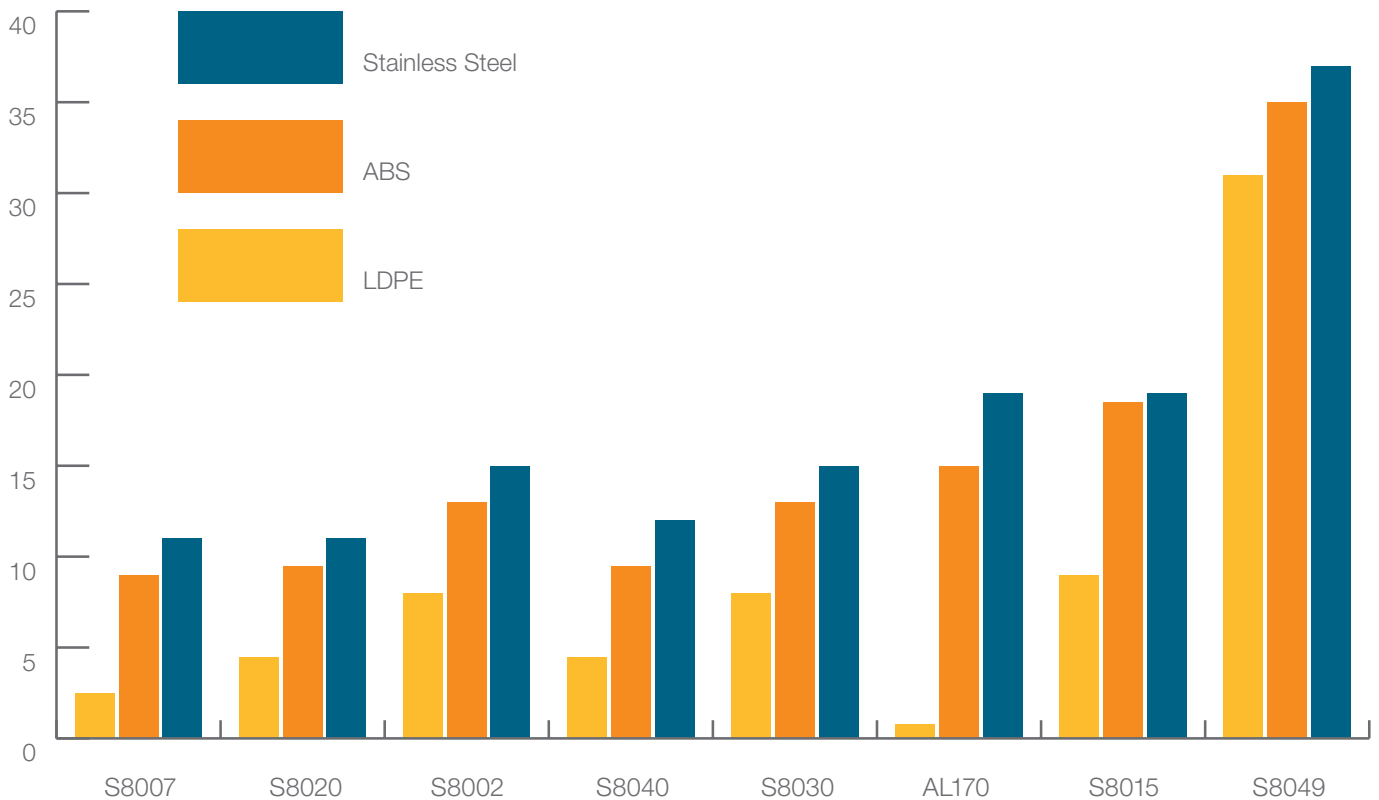
Ex EXACT
 RW Ready Width
 FTO MOQ 300 sqm



Polyester Films

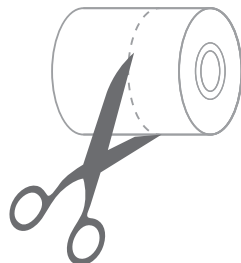
Avery Dennison polyester films are available with a range of adhesives for different applications. Emulsion acrylic adhesives S8007, S8020 and S8002 are used in applications where price is a key differentiator. Solvent acrylic adhesives S8040, S8030, AL170, S8015 and S8049 are recommended if high humidity and chemical resistance are required.

The following table shows peel adhesion levels according to FTM1 on selected surfaces:



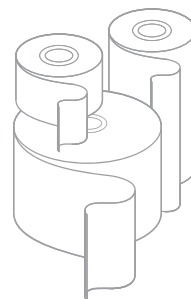
Fasson EXACT™

The EXACT service allows you to order the exact roll width at a predefined length.



Fasson Ready Width™

The Ready Width service allows you to purchase low volume products at standard widths and lengths. This service now includes products with a length of only 500 linear meter.





Overlamination Films

If printed labels require additional protection against harsh chemicals, mechanical stress or UV light, a range of overlamination films is available.

Overlamination Films		Code	Topcoat (TC) / Print Treatment (PT)	Adhesive Technology (Solv./Em.-Acrylic)	Adhesive coatweight (g/m ²)	Min. Application temp. (°C)	Min. Service temp. (°C)	Max. Service temp. (°C)	Rough surfaces	Apolar surfaces	Curved surfaces (low surface tension)	Slightly dirty or oily surfaces	UL-approval	EXACT	Ready Width	FTO
Glossy	Overlaminating PET 25 / S8020 / BG42wh	AE407	PT	Em.	20	+5	-40	+150								
	Overlaminating PET 25 / AL170 / HF80	AA647	PT	Solv.	20	0	-80	+150								
	Overlam PET 23 UV / S8020 / PET23	AS675	PT	Em.	20	+5	-40	+150	○							
	Overlam PET 23 UV / AL170 / PET23	AS674	PT	Solv.	20	0	-40	+150								
Matt	Overlam PET 25 matt trans / AL170 / HF80	AC747	-	Solv.	20	0	-80	+150								
	Overlam PET 25 matt trans / AL170 / HF100	BF482	-	Solv.	20	0	-80	+150						Coat to Order		
	Overlam Polycarb 50 matt / S8020 / PET36	AB702	-	Em.	20	+5	-40	+125	○							



PVC Films

High UV resistance, flexibility and flame retardant properties are typical characteristics of PVC films. The polymeric plasticized, calendered or cast films offer excellent TT printability and are fully REACH compliant.

PVC Products for extra outdoor durability		Code	Topcoat (TC) / Print Treatment (PT)	Adhesive Technology (Solv./Em.-Acrylic)	Adhesive coatweight (g/m ²)	Min. Application temp. (°C)	Min. Service temp. (°C)	Max. Service temp. (°C)	Rough surfaces	Apolar surfaces	Curved surfaces (low surface tension)	Slightly dirty or oily surfaces	UL-approval	EXACT	Ready Width	FTO
	PVC outdoor white / AL170 / BG42wh	AA648	-	Solv.	24	0	-40	+110								
	PVC outdoor matt white / AL170 / BG42wh	AA948	-	Solv.	24	0	-40	+110								
	PVC outdoor clear / AL170 / BG42wh	AS880	-	Solv.	24	0	-40	+110								
	PVC outdoor matt clear / AL170 / BG42wh	AW627	-	Solv.	24	0	-40	+110								
	Transfer PVC 50 cast white / S8065 / BG50wh	AE357	-	Solv.	40	+5	-40	+120	●	●	●	●				
	Transfer PVC 50 cast silver / S8065 / BG50wh	AE416	-	Solv.	40	+5	-40	+120	●	●	●	●				
	Transfer PVC 50 cast clear / S8065 / BG50wh	AI995	-	Solv.	40	+5	-40	+120	●	●	●	●				
	Transfer PVC 50 cast yellow / S8065 / BG50wh	AE359	-	Solv.	40	+5	-40	+120	●	●	●	●				

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Ex EXACT
RW Ready Width
FTO MOQ 300 sqm



Polyimide Films

Avery Dennison's Polyimide materials are capable of withstanding the high peak temperatures and cleaning solvents used during the production of printed circuit boards.

Polyimide Films		Code	Topcoat (TC) / Print Treatment (PT)	Adhesive Technology (Solv./Em.-Acrylic)	Adhesive coatweight (g/m ²)	Min. Application temp. (°C)	Min. Service temp. (°C)	Max. Service temp. (°C)	Rough surfaces	Apolar surfaces	Curved substrates (low surface tension)	Slightly dirty or oily surfaces	UL-approval	EXACT	Ready Width	FTO
Polyimide I gloss white TC13 / S8088 / BG50wh		BC668	TC	Solv.	27	+10	-40	+260								*
Polyimide I white TC14 / S8088 / BG50wh		BB810	TC	Solv.	27	+10	-40	+260			●					*
Polyimide II white TC14 / S8088 / BG50wh		BC133	TC	Solv.	27	+10	-40	+260			●					*
Polyimide I matt white / S8088 / 50#SCK		Al300	TC	Solv.	27	+10	-40	+280			●					*
Polyimide II matt white / S8088 / 50#SCK		AH415	TC	Solv.	27	+10	-40	+280			●					*

Other Films

PRODUCTS FOR SPECIAL APPLICATIONS

Shown below is a selection from the wider Avery Dennison product portfolio, meeting very demanding production criteria across a wide variety of industrial applications.

Other Products		Code	Topcoat (TC) / Print Treatment (PT)	Adhesive Technology (Solv./Em.-Acrylic)	Adhesive coatweight (g/m ²)	Min. Application temp. (°C)	Min. Service temp. (°C)	Max. Service temp. (°C)	Rough surfaces	Apolar surfaces	Curved substrates (low surface tension)	Slightly dirty or oily surfaces	UL-approval	EXACT	Ready Width	FTO
Transfer PO white / S8020 / BG42wh		BF481	-	Em.	20	+5	-40	+80	○	●	Y					●
Transfer PO clear / S8020 / BG42wh		BF483	-	Em.	20	+5	-40	+80	○	●	Y					●
Transfer PP TR 75 matt white / S8020 / BG42wh		AC463	TC	Em.	20	+5	-40	+100	○	○	Y	●				
Transfer PP TR 75 matt white / S8002 / BG42wh		BN104	TC	Em.	27	+5	-40		○	●	○		Y			●
Transfer PET white CR / S8015 / BG42wh		BB815	TC	Solv.	32	+7	-40	+150	●	●			Y			●
Transfer PET silver CR / S8015 / BG42wh		AZ348	TC	Solv.	32	+7	-40	+150	●	●			Y			●
ESD PET white TOP / S8087 / BG55wh		AU978	TC	Solv.	24	+4	-40	+150					Y			●
Transfer PET 36 white TOP / S8092 / PET75		AS191	TC	Sili-cone	50	+5	-80	+150	●	●	○	●				*
PET void check matt chrome / S8015 / BG42wh		AB048	TC	Solv.	26	+7	-40	+120		●			Y		●	
PVC semi gloss white UD / S2000N / BG50wh		AZ426	-	Em.	22	0	-20	+80					Y			*
PVC semi gloss white UD / S690 / BG50wh		AW451	-	Solv.	32	+10	-40	+110	●				Y			*
Transfer Tape BG50Wh / S8049 / BG50WH BSS		A0530		Solv.	45	+5	-40	+150	●	●	●	●				●

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FTO MOQ 300 sqm

We recommend that the product should be tested thoroughly under end-use conditions to ensure it meets the requirements of the specific application.

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