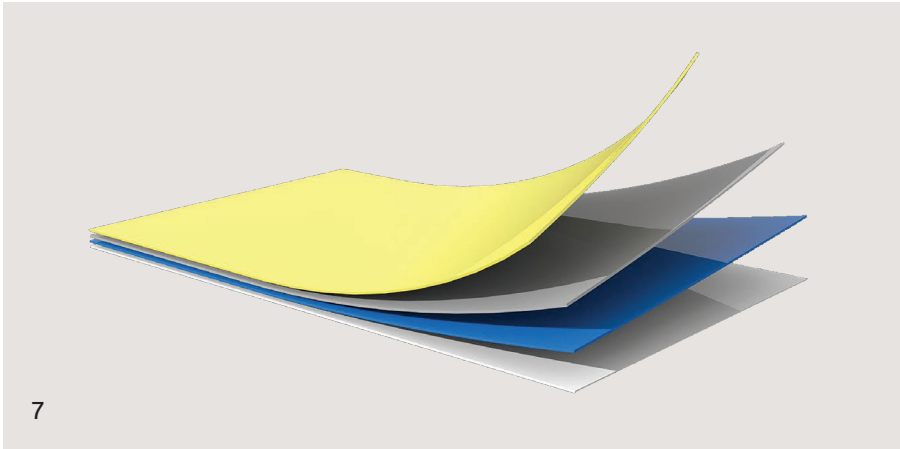


Avery Dennison®
Pharmaceutical and
Healthcare Collection

Build a healthier business with dedicated pharma labeling solutions





Tested. Consistent. Compliant. Sustainable.

Our dedicated portfolio of key paper and film products offers you tailored options for a variety of applications. Plus, our customer-ready products offers an added layer of security, lessening the chances for issues such as contamination and recalls.

The portfolio provides

- An easier way to understand and introduce pharmaceutical labeling solutions
- Improved range of products addressing simple to complex application needs
- Quick lead times and shorter time to market with use of pre-tested constructions
- Increased brand owner familiarity
- Change protection via change management process
- Compliance expertise
- A range of sustainable solutions to help you meet your goals

Pharmaceutical Solutions

1 **Syringe Labeling**

Labels specifically designed for small diameter syringes and auto-injectors for better dosage security and sterility.

2 **Cold Chain labeling**

Ensure clear identification of biological materials from collection to storage, transportation and delivery to the medical facility and, ultimately, the patient.

3 **Blood and plasma bag labels**

Reliability and simplicity for identification labeling. Primary and secondary blood bags solutions.

4 **Ethical and OTC containers**

Servicing the growing demand for ethical products.

5 **Tamper-evident security labelling / Anti-counterfeit labeling**

Box damage labels to protect against tampering. Protect pharmaceutical products against counterfeiting.

6 **RFID solutions**

Improves inventory tracking and helps provide user interactive solutions.

7 **Engineered Solutions**

Are we missing a construction you need? We have a team of technical solutions leaders dedicated to developing one-of-a-kind, engineered solutions that fit your time line.

Core Advantages

TESTED: Independently tested for an added layer of protection

| Adhesive Testing | S727 | S717P | S692NP | S246 |
|--|------|-------|--------|------|
| Skin Irritants Result: Low irritation | ● | ● | ● | ● |
| Eye Irritants Result: Low irritation | ● | ● | ● | ● |
| Acute Oral Toxicity Result: Not orally toxic | ● | ● | ● | ● |
| 3375 FDA Drug Master File Listing* | Yes | Yes | Yes | Yes |

*Our DMF file includes a longer list of adhesives than the four mentioned above. The DMF file helps end users with FDA approvals of the labels in the application. End users request the FDA opinion on specific adhesives being used in their application and the FDA uses adhesive information provided by Avery Dennison to determine if this adhesive is safe to use in the application.

● Pass ● Fail ○ Not Tested

Sterilization is defined as the total destruction of all microbial life and is part of processes in pharmaceutical and medical space

| | Autoclave | E.T.O | Radiation |
|-------------------|--|--|--|
| Sterilizing Agent | Pressurized steam | Ethylene oxide gas | Gamma rays and electron beam |
| Major Advantage | Ease of operation | Least damaging to package | Speed of operation |
| Major Challenge | Extremes of Temp, vacuum and pressure | Operation time, toxic residues | |
| Temperature | 121C (249°F) | 25C (77° F) to 55C (131° F) | Ambient Room |
| Recommendations | Polyolefin face and some rubber adhesives are not recommended. Best results with film face and acrylic adhesives | Polyolefin lables can be damaged. Good results with acrylic adhesives (paper and film) | Rubber adhesives are not recommended. Good results with acrylic adhesives (paper and film) |

Consistent

Component change minimization and robust notification commitment for peace of mind.

- We strive for minimal component change disruptions
- We provide automatic notification of any planned component changes
- We offer Pharma adhesives with 3-12 months change notification to facilitate re-qualification

Compliant

Meeting a wide range of regulatory standards.

Regulations are subject to change. For the most updated compliance statement, please contact your sales representative or visit label.averydennison.com/compliance

| | |
|-------------|--------------------------|
| FDA 175.105 | Result: Approved |
| CONEG | Result: Does not contain |
| REACH SVHC | Result: Does not contain |
| RoHS / WEEE | Result: Does not contain |

Sustainable

Product options to achieve corporate sustainability goals.

- Responsibly Sourced - Forest Stewardship Council® (FSC) certified paper facestock options
- Enables Recycling - Association of Plastics Recyclers (APR) recognized constructions for HDPE recycling

Paper Overview

Paper Facestock Descriptions

| | |
|-------------------------------|---|
| Pharma High-Gloss | Coated, calendered paper offering superior gloss, high strength and high-quality printing. |
| Pharma Semi-Gloss FSC® | Coated, super-calendered paper with moderate gloss, high strength, and high-quality printability. This facestock offers a marked reduction in the occurrence of surface contamination compared to traditional semi-gloss. |
| Lightweight Pharma Litho FSC® | Matte-coated, calendered paper providing superior flexibility and good printability. Recommended for tight mandrel applications (<1/4" substrate diameter). |

Paper Facestock Characteristics

| Paper Type | Basis Weight | Caliper | Print Resolution | Date Stamping | Smoothness | Flexibility | Opacity | Gloss |
|-------------------------------|---|---|------------------|---------------|------------|-------------|---------|-------|
| | lbs/ream (Ream = 500 25" x 38" sheets) | Thickness in Mils (1Mil = 1/1000 inch) | | | | | | |
| Pharma High-Gloss | 60 | 2.9 | ● | ● | ● | ● | ● | ● |
| Pharma Semi-Gloss FSC® | 58 | 3.0 | ● | ● | ● | ● | ● | ● |
| Lightweight Pharma Litho FSC® | 40 | 2.8 | ● | ● | ● | ● | ● | ● |

●

 Excellent

●

 Good

●

 Not Recommended

Adhesives for Paper Components

Adhesive Descriptions

| | |
|--------|---|
| S727 | High-performance, permanent solvent acrylic adhesive ideal for tight mandrel labeling. Widely used in applications requiring sterilization. Ideal for critical pharmaceutical applications requiring an extended component change notification commitment. |
| S717P | High-performance, permanent emulsion acrylic adhesive ideal for tight mandrel labeling. Widely used in applications requiring sterilization. Ideal for critical pharmaceutical applications requiring an extended component change notification commitment. |
| S692NP | General-purpose, permanent emulsion acrylic adhesive with good adhesion to low-energy substrates (e.g. squeezable containers). Often used in applications requiring sterilization. Ideal for consumer health care applications requiring a moderate component change notification commitment. |
| S246 | General-purpose, permanent hot melt adhesive featuring high initial tack and ultimate adhesion. Ideal for consumer health care applications requiring a minimum component change notification commitment. |

Typical Adhesive Performance Characteristics (with Paper Facestocks)*

| Adhesive | Minimum Application Temperature | Service Temperature Range | Application | Adhesive Change Notification Commitment (Months) | Sterilization* | | | Adhesion* | | | Small Diameter (1/4 inch)* | | |
|----------|---------------------------------|---------------------------|---------------------------------|--|----------------|-----|-------|-----------|----|----|----------------------------|----|----|
| | | | | | Autoclave | ETO | Gamma | Glass | PE | PP | Glass | PE | PP |
| S727 | +50° F | -65° F to +250° F | Ethical Drugs & Medical Devices | 12 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| S717P | +50° F | -65° F to +250° F | Ethical Drugs & Medical Devices | 12 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| S692NP | +23° F | -20° F to +200° F | Consumer Healthcare | 6 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| S246 | +40° F | -65° F to +160° F | Consumer Healthcare | 3 | ● | ● | ● | ● | ● | ● | ● | ● | ● |

*Application-specific testing required.

● Recommended ● Product dependent/testing recommended ● Not Recommended

Liners for Paper Components

Liner Descriptions

| | |
|----------------------------|--|
| 40#CK 40#SCK 50#SCK | Bleached, calendered and super-calendered kraft release liners featuring high internal strength and tear resistance. Excellent for die cutting and dispensing. |
| 1.2 Mil PET 1.5 Mil PET | Clear, durable polyester liner appropriate for high-speed die cutting and dispensing. |
| ABC | Anti-block coating applied to the back side of the liner to prevent label transfer to the liner back when rolls of labels are unwound. Generally used with film facestocks or heavy adhesive coat weights. |

Paper Specs

| Application | Facestock | Spec# | Adhesive | Liner |
|---------------------------------|-------------------------------|--------|----------|--------------|
| Ethical Drugs & Medical Devices | Pharma High-Gloss | 53283 | S717P | 40#SCK |
| | | 53168 | S727 | 40#SCK |
| | | 08222 | S727 | 50#SCK |
| | | B5650 | S727 | 1.5 Mil PET |
| | Pharma Semi-Gloss FSC® | 54329* | S717P | 40#SCK |
| | | 54335* | S717P | 1.5 Mil PET |
| | | 54332* | S727 | 40#SCK |
| | | 54334* | S727 | 1.5 Mil PET |
| | Lightweight Pharma Litho FSC® | 53285 | S717P | 40#SCK |
| | | 53343 | S717P | 1.2M PET |
| | | 07944 | S727 | 40#SCK |
| | | 07945 | S727 | 50#SCK (ABC) |
| | | 19458 | S727 | 1.5M PET |
| Consumer Healthcare | Pharma High-Gloss | B5562 | S246 | 40#SCK |
| | Pharma Semi-Gloss FSC® | 54339* | S246 | 40#CK |
| | | B6168* | S246 | 1.2 Mil PET |
| | | 54331* | S246 | 1.5 Mil PET |
| | Lightweight Pharma Litho FSC® | 09816 | S246 | 40#SCK |

* Part of Sustainable ADvantage Portfolio

Film Overview

Film Facestock Descriptions

| | |
|-----------------------|--|
| Primax® 350 White | Flexible, white opaque polyolefin film featuring excellent conformability for full-squeeze applications. Offers excellent print quality, dispensability and dimensional stability. |
| FasClear® 350 Clear | Flexible, matte clear polyolefilm film offering excellent conformability for full-squeeze applications. Offers excellent print quality, dispensability and dimensional stability. |
| 2.6 Mil White BOPP TC | Rigid, pearlized white biaxially-oriented polypropylene film with good conformability and high print quality. Cost-saving alternative to polyester. |
| 2.0 Mil Clear BOPP TC | Rigid, ultra-clear, biaxially-oriented polypropylene film with good conformability and high print quality. Cost-saving alternative to polyester. |
| 1.5 Mil Reveal PET | Rigid, ultra-clear, polyester film with good conformability and excellent durability. |
| 2.3 Mil White BOPP TT | Rigid, pearlized white biaxially-oriented polypropylene film with good controllability and thermal transfer printability. |
| 2.0 Mil Clear BOPP TT | Rigid, ultra-clear, biaxially-oriented polypropylene film with good conform ability and thermal transfer printability. |

Film Facestock Characteristics

| | | Caliper | Print Registration | Die Cutting | Dispensing | Conformability | Clarity |
|-------------|-----------------------|---|-----------------------|-------------|------------|----------------|---------|
| | | Thickness in Mils (1Mil = 1/1000 inch) | | | | | |
| Film Type | | | | | | | |
| Conformable | Primax® 350 White | 0.0035 inches | ● | ● | ● | ● | ● |
| | FasClear® 350 Clear | 0.0035 inches | ● | ● | ● | ● | ● |
| Rigid | 2.6 Mil White BOPP TC | 0.0026 inches | ● | ● | ● | ● | ● |
| | 2.0 Mil Clear BOPP TC | 0.0020 inches | ● | ● | ● | ● | ● |
| | 2.0 Mil Clear BOPP TT | 0.00142 inches | ● | ● | ● | ● | ● |
| | 2.3 Mil White BOPP TT | 0.0026 inches | ● | ● | ● | ● | ● |
| | 2.0 Mil Clear BOPP TT | 0.0020 inches | ● | ● | ● | ● | ● |
| | | | | | | | |

● Excellent ● Good ● Not Reccomended

Adhesives for Film Components

Adhesive Descriptions

| | |
|--------|--|
| S727 | High-performance, permanent solvent acrylic adhesive ideal for tight mandrel labeling. Widely used in applications requiring sterilization. Ideal for critical pharmaceutical applications requiring an extended component change notification commitment. |
| S717P | High-performance, permanent emulsion acrylic adhesive ideal for tight mandrel labeling. Widely used in applications requiring sterilization. Ideal for critical pharmaceutical applications requiring an extended component change notification commitment. |
| S692NP | General-purpose, permanent emulsion acrylic adhesive with excellent adhesion to low-energy substrates (e.g. squeezable containers). Often used in applications requiring sterilization. Ideal for consumer health care applications requiring a moderate component change notification commitment. |

Typical Adhesive Performance Characteristics (with Film Facestocks)*

| Adhesive | Minimum Application Temperature | Service Temperature Range | Application | Adhesive Change Notification Commitment (Months) | Sterilization* | | | Adhesion* | | | Small Diameter (1/4 inch)* | | |
|----------|---------------------------------|---------------------------|---------------------------------|--|----------------|-----|-------|-----------|----|----|----------------------------|----|----|
| | | | | | Autoclave | ETO | Gamma | Glass | PE | PP | Glass | PE | PP |
| S727 | +50° F | -65° F to +250° F | Ethical Drugs & Medical Devices | 12 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| S717P | +50° F | -65° F to +250° F | Ethical Drugs & Medical Devices | 12 | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| S692NP | +23° F | -20° F to +200° F | Consumer Healthcare | 6 | ● | ● | ● | ● | ● | ● | ● | ● | ● |

*Application-specific testing required.

● Recommended ● Product dependent/testing recommended ● Not Recommended

Engineered Solutions

Missing a construction you need? Our dedicated team of technical solutions leaders develop one-of-a-kind, engineered solutions that fit your time line and your bottom line.

1 →

Problem

You'll work directly with an Avery Dennison Technical Leader (TL) teammember to help you solve problems

2 →

Idea

Once you have the idea, our TL will provide you with quote, lead time and MOQ for the potential solution

3 →

Prototype

Using our materials and specialists, along with your knowledge, we'll create a prototype for trial

4 →

Verify + Validate

Working together, we'll verify and validate that the solution is truly fit for use

5

Commercialize

Then we'll commercialize the final solution allowing you to execute the opportunity

Liners for Film Components

Liner Descriptions

40# BG Bleached, glassine white liner with good back printability. Designed for low-to medium-speed dispensing applications.

1.2 Mil PET Clear, durable polyester liner appropriate for high-speed die cutting and dispensing.

Film Specs

| Application | Facestock | Spec# | Adhesive | Liner |
|---------------------------------|-----------------------|--------|----------|-------------|
| Ethical Drugs & Medical Devices | Primax® 350 | 79044 | S717P | 40#BG |
| | | 79070 | S717P | 50#SCK |
| | | 79043 | S717P | 1.2 Mil PET |
| | | 79064 | S727 | 40#BG |
| | FasClear® 350 | 79046 | S717P | 40#BG |
| | | 79040 | S717P | 40#BG |
| | 2.6 Mil White BOPP TC | 79039 | S717P | 1.2 Mil PET |
| | | 79060 | S727 | 40#BG |
| | | 78172 | S727 | 50#SCK |
| | | 79059 | S727 | 1.2 Mil PET |
| | 2.3 Mil White BOPP TC | 79704 | S717P | 1.2 Mil PET |
| | | 79706 | S727 | 1.2 Mil PET |
| | 2 Mil Clear BOPP TC | B3595 | S727 | 40#BG |
| | | B3582 | S717P | 1.2 Mil PET |
| | | B3585 | S717P | 40#BG |
| | 1.5 Mil Reveal PET | 79047 | S717P | 1.2 Mil PET |
| Consumer Healthcare | 3.0 Mil White MDO | 79660* | S692NP | 40#BG |
| | 2.6 Mil White BOPP TC | 79049* | S692NP | 1.2 Mil PET |
| | 2.3 Mil White BOPP TC | 78349* | S692NP | 40#BG |
| | 2 Mil White BOPP TC | B3938* | S692NP | 1.2 Mil PET |
| | 1.5 Mil Reveal PET | 79057 | S692NP | 1.2 Mil PET |

*Meets the Association of Plastic Recyclers (APR) Critical Guidance Protocol for HDPE recycling. Part of Sustainable ADVantage Portfolio

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