

Avery Dennison  
Label and Packaging Materials  
Technical guide

Europe  
2023

# Paper materials



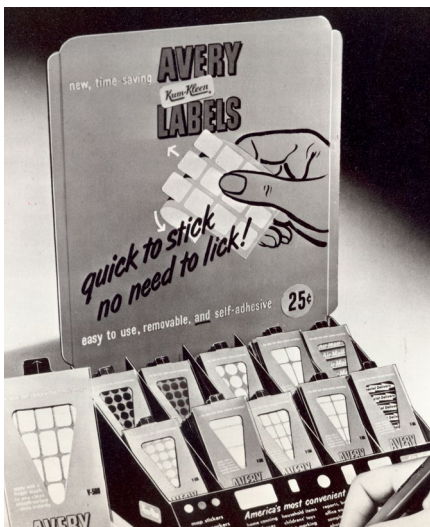
We didn't invent paper, but we did invent the paper label.

The first paper label we created, more than eight decades ago, was the first self-adhesive label ever. We've been pushing the limits of paper's potential ever since, and we're not about to stop now.

We're always looking for new ways for paper and the rest of the label to work harder. For us, innovation is synonymous with sustainability, so we're especially focused on creating solutions that use fewer raw materials and contribute to the circular economy through responsible sourcing and the use of recycled content.

We proudly offer the most comprehensive selection of paper materials and paper label constructions for virtually every application. Our global team of technical experts can also develop customized solutions to help you get the most out of your label.

We created this guide to help you select the perfect material for your application. Take a look, and design your next label with confidence.



## Why choose paper labels?

Brands and packaging designers have been using paper labels for eight decades. From their printability to their performance and sustainability profile, paper labels are often the best choice.

Here are some of the many benefits offered by paper labels:



### More options for embellishments

From hot-foil stamping to embossing and more, paper can take it all, giving your creativity freedom to roam.

### A variety of finishes

Embellishments are just the beginning. Paper also lets you add finishing options, like varnishes or laminates, for performance or aesthetics.

### More textures

Coarse. Velvety. Elegant. Rustic. Paper appeals to the fingertips as well as the eye, and one thoughtfully chosen texture can tell a whole brand story.

### Sustainability

Paper comes from trees, a renewable resource, and can be easily recycled or composted. Recycled content can also easily be incorporated into paper labels with no loss in quality. A vast majority of the paper products we offer are made with certified-claim wood fiber, harvested from responsibly managed forests, and many of our papers contain recycled content.

### Cost effectiveness

Paper materials deliver all the advantages of pressure-sensitive labels at a cost that fits most budgets.



## Choosing the right paper

Selecting the right paper for your label depends on a mix of factors, including your application, package design, the functionality you need, and more. Here's how to choose the right material in five easy steps.

### 1. Know your application

What is the item you're labeling? What kind of substrate (surface) will you apply the label to? And what are the conditions under which the label must perform? Our paper label materials are widely used in applications in the following industries (and more):



Beer and beverage



E-commerce and logistics  
(including luggage tags)



Home and personal care



Retail and weight scale



Food



Industrial



Pharmaceuticals



Office and administrative



Wine and spirits



Security and brand  
protection

### 2. Specify your technical requirements

Paper facestocks come with a wide variety of characteristics that can ensure and enhance performance. Some of the options and variables to keep in mind:

- Weight/thickness of the base paper
- Coated or uncoated paper
- Resistance to humidity and water (splash proof)
- Resistance to oil and grease
- Resistance to ultraviolet light and heat
- Scuffing resistance
- Tensile/wet strength and tear resistance
- Stiffness (which determines the mandrel and dispensing performance of the label)
- Opacity (the degree to which light can pass through the material, determining its "clarity" or transparency)
- Whiteness and brightness (including OBA-free solutions)
- Gloss level, roughness, and smoothness
- Amount of recycled content (if required)
- Variable Information readability (for readable barcodes)
- Destructibility, tamper evident properties

To learn more about different paper types, see page 5.

### 3. Choose your optical properties

Your label is key to shelf appeal and to conveying brand look and feel. Its color and finish greatly influence the effect of the finished products. Options include:



White matte



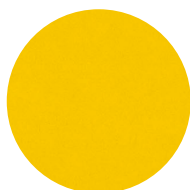
White semi-gloss



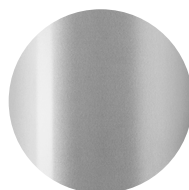
White gloss



White high gloss



Colored



Metalized



Textured

### 4. Determine your printing process

There are many printing technologies, each with its advantages and aesthetic considerations. It's important to know which one you're using, since certain paper materials work best with certain technologies and many are purpose-engineered for a specific technology. Some popular options:

#### Analog printing

- UV flexo
- Water-based flexo
- UV letterpress
- Offset/Lithography

#### Digital printing

- Electro photography
  - Liquid toner
  - Dry toner
- UV inkjet
- Water-based inkjet

#### Variable information

- Thermal transfer
- Direct thermal
- Laser printer

#### Complementary technologies /embellishments

- Cold foil
- Hot foil
- Embossing/debossing
- Screenprinting
- Spot varnish
- Security covert UV prints

### 5. Pick your label material

You now have the information you need to select the right material. See your options starting on page 11. If you have questions, reach out and one of our experts will be happy to help you find the best solution for you.

## Types of paper

There are various categories of paper, each with different aesthetic and performance characteristics. Here's a quick intro to the main types.



### Coated papers

These are papers with a (semi)gloss finish obtained by applying a coating on the base paper. They work with the broadest range of applications, including unique label constructions on complex package shapes.



### Uncoated papers

No coating, just pure paper. These are designed to work with toner-based inks used in laser printers and copiers, liquid-based inks found in inkjet printers, and ribbon-based, thermal-transfer printing. They're also often used with traditional printing methods.



### Special papers and foils

There is a wide variety of special label materials available, such as decorative labels, foils, radiants, metalized papers, and grease-proof papers.



### Direct thermal paper

These are designed to display variable information (VI) printed with direct thermal printers. We offer a broad range of direct thermal papers for all market needs, including long shelf lives and applications in the harshest environments. Linerless options are also available.

## Paper materials for common applications



When shelf appeal really counts, you can rely on our specialty paper solutions to help win consumers' attention.



## E-commerce and logistics

We offer several solutions for e-commerce and logistics. These include thermal transfer and direct thermal papers perfect for variable information (VI) labeling; paper labels embedded with RFID technology that improves supply chain visibility and inventory management; and our Direct Thermal RDX facestock and XeroLinr DT linerless solution, which use less materials and thereby reduce packaging waste.

Another innovation of ours is “piggybacks”, label constructions built from several layers of label and adhesive. These allow the top label to be removed and applied on another surface, such as an e-commerce receipt, helping make product returns easier for consumers and warehouse operations more efficient.

## Packaging for luxury goods

When shelf appeal really counts, you can rely on our premium paper solutions to help win consumers' attention. By offering a sensory feast of colors, textures, and coatings, our premium decorative papers help converters, designers, and brands create beautiful packaging that demands to be touched, read, and taken home, whether you're printing digitally or through conventional offset methods.

## Security applications

Protecting your brand, products, and consumers is more of a priority than ever, due to increasing counterfeiting, product diversion, and tampering. Our security paper range, combined with our high performance adhesives, provide reliable and safe solutions to protect labeled goods from counterfeiting and deliver the consumers who buy your products a safer and more reliable experience. Our paper security materials are designed to be transformed into visible, tamper-evident labels that also allow the addition of invisible layers of security features.

## Paper materials that advance circularity

Paper is made from wood fiber, a renewable and recyclable resource. While large amounts of paper are recycled, most recycled fiber is used to make cardboard and there's a shortage of recycling infrastructure and capacity to produce paper suited for labels. Fortunately, this is changing. Face materials and liners are increasingly being made with recycled content, including many in our portfolio.

For example, our Sustainable Advantage range makes it easy for brand owners to reduce the environmental impact of packaging without sacrificing performance. For each paper in the range, one or more of the following applies:



Uses less  
material



Enables  
recycling, reuse,  
or composting



Contains  
recycled content



Responsibly  
sourced



## Responsibly sourced papers

We're aiming to offer 100% certified-claim paper by 2025, of which at least 70% will be Forest Stewardship Council® (FSC)-certified. In Europe, nearly 99% of our facestock is FSC-certified. We offer hundreds of paper materials certified by FSC, so you can be confident that they come from pulp fiber harvested from responsibly managed forests.

## Papers with recycled content

### rMC

rMC is FSC-certified, containing 30% recycled content from post-consumer recycled (PCR) waste. It offers very good print quality and an appealing semi-gloss appearance equivalent to the standard, non-recycled grade. Because it's recycled, rMC requires less resources to manufacture, representing a solid step towards a circular economy. rMC is now also available with 100% recycled content.

### rDT

rDT is a direct thermal, uncoated, BPA-free paper containing recycled content from PCR waste, perfect for weight scales, shipping labels, retail, and more. rDT offers the same appearance, converting performance, direct thermal printability, and barcode readability as our standard non-recycled direct thermal paper.

### rVellum

rVellum is one of our most circular label constructions yet. It's comprised of an FSC-certified facestock containing 100% recycled fiber content (including waste from our own liners); an FSC-certified liner with 15% recycled content; and a hotmelt adhesive which is TUV certified (2\*\*) for bio-based content. It offers print quality and conversion performance comparable to standard non-recycled products.

## Papers combining recycled and alternatively sourced content

We offer papers that utilize innovative, alternatively sourced content and deliver a premium look and feel. These include our Sustainable Wine Range, with facestocks made with FSC-certified, PCR paper in quantities from 40% to 100%, and our Crush Range, with facestocks made with 15% grape, citrus, or barley waste, plus 40% FSC-certified paper. Other products in the portfolio integrate cotton linters and bagasse fiber. Customizations are available, to give you materials that match your creative vision.

## Papers that use less material

We offer a variety of paper label components that use less material. For example, our new AD RDX™ papers offer the same performance as conventional products in a thinner package. This means they require less materials, resources, waste, transport, and storage space, resulting in reduced environmental impact as well as increased operational efficiency and productivity.

Meanwhile, our new direct thermal AD XeroLinnr DT™ solution is linerless. It therefore uses less resources and less transportation, and has a lower carbon footprint as a result. Thanks to its linerless construction, AD XeroLinnr DT makes it possible to fit up to 60% more labels on each roll. This means fewer roll changes, greater productivity, and improved warehouse utilization. AD XeroLinnr DT is also FSC-certified and phenol-free.

Our Sustainable Advantage range makes it easy for brand owners to reduce the environmental impact of packaging without sacrificing performance.

Sustainable  
Advantage



## Papers that enable recycling or reuse

Creating packaging for recycling or reuse requires carefully selecting paper labels and combining them with dedicated wash-off adhesives. Products in our paper label portfolio, paired with our WX6030 or WW2031 adhesives, allow for clean removal from a wide range of surfaces, without chemical additives and at wash temperatures as low as 21°C.

## Compostable paper materials

Compostable packaging material enables environmentally friendly end-of-life disposal without compromising product performance. We offer a BPA-free direct thermal eco label facestock which, when combined with adhesive S9500, qualifies as an “OK Compost”-certified product. It is approved for dry, non-fatty foods and can be converted using conventional printing techniques.

## Beyond facestocks: Adhesives and liners



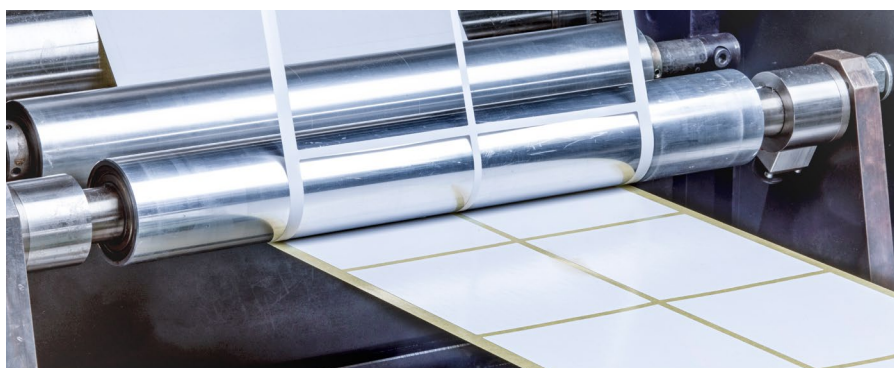
Choosing a facestock is just the beginning of label design. The right adhesive and liner add invaluable functionality and performance.

### Innovators in adhesives

We're the only company in the pressure-sensitive label industry that engineers and produces its own adhesives, and we've done it for over 85 years. With 400 adhesive scientists working in seven R&D centers worldwide, we solve customer challenges in real time and offer high performing, innovative, customized adhesive solutions to every corner of the globe.

Adhesives for paper labels range from extra-permanent to ultra-removable and from general purpose to custom engineered and application-specific.

To learn more, view our adhesives technical guide [here](#).



### Liners that work for you

We regularly create new kinds of liners to help converters and end users label more efficiently, cost-effectively, and sustainably. Innovations include our PET liner with paper face, liners made with recycled content, and custom designs that optimize performance for customers' specific needs.

An increasing number of products have moved to liners with recycled content. For example, our rPET23 liner contains 30% recycled content, while our rBG liner is made with recycled glassine. Like all of our liners, they are both entirely recyclable.

### Recycle liners with AD Circular

We're making liner recycling easier and cost-effective through our AD Circular program. Simply schedule a pickup of used label liners and we take care of the rest — pickup, transport, recycling (through our recycling partners), and all the necessary paperwork and regulatory compliance. We also provide data and certificates on the amount of liner material you've recycled, CO2 emissions savings, and more.

Collection and transport of used liners through AD Circular complies with EU regulations, and the cost is comparable to existing waste disposal services. AD Circular processes liners regardless of who made them or where they were purchased. To sign up for AD Circular, click [here](#) or talk with your Avery Dennison representative.

## Order it your way

We've pioneered several flexible ordering programs that let you order material in the way that best fits your business, so you can maximize efficiency, productivity, and profitability.

### **EXACT™**

Our EXACT™ program features more than 100 specifications for precise roll widths and lengths that match your slit patterns, enabling you to eliminate end-wasted roll remainders and offcuts.

### **Ready Width™**

Low-volume products at standard widths and lengths currently not included in the EXACT™ program are available through our Ready Width™ program.

### **One Roll Unique Service (ORUS)**

Create prototypes and try new Avery Dennison product combinations with reduced up-front costs and less waste with ORUS. ORUS makes business development easier and less expensive by enabling you to order a single roll of any of our one-meter products.

### **Mix & Match™ Portfolio**

Choose from a set range of unconventional label constructions created to address your unique application and performance needs.

### **Hold the adhesive**

Most of our facestocks are available unlaminated, without adhesive, from our Rapid-Roll® Portfolio.

### **Engineered Solutions**

Challenging problems sometimes require custom solutions, and our Engineered Solutions service allows you to differentiate your products with custom-made labels that defy the norm.

### **Put our team on your team**

When you choose Avery Dennison materials, you get more than a product. You also get the know-how and guidance of some of the most experienced people in labeling. Whatever your challenge, our Technical Excellence Team will work with you in person to understand your material requirements and help you apply the best solution, optimized for your operation. Contact your sales representative for more information.



## Paper portfolio overview

### Coated papers — Semi gloss / machine coated (MC)

| Code  | Facestock               | Adhesive | Liner         | Sustainability category |
|-------|-------------------------|----------|---------------|-------------------------|
| BK710 | MC Light RDX FSC        | S2000NG  | BG40BR        | Reduce material use     |
| AL319 | MC Light RDX FSC        | S2045N   | BG40BR        | Reduce material use     |
| BZ900 | MC RDX FSC              | S2000NG  | BG30BR FSC    | Reduce material use     |
| CK910 | MC RDX FSC              | S2000NG  | rBG40BR FSC   | Reduce material use     |
| BJ993 | MC FSC                  | S2000NG  | BG40BR        | Responsibly sourced     |
| BJ995 | MC FSC                  | S2045N   | BG40BR        | Responsibly sourced     |
| AP515 | MC Primecoat FSC        | S2000N   | PET23         | Responsibly sourced     |
| BS178 | MC Primecoat FSC        | S2000N   | rPET23        | Recycled content        |
| CI845 | MC Primecoat FSC        | S2045N   | rPET23        | Recycled content        |
| BD525 | MC Primecoat FSC        | S2550    | BG40BR        | Responsibly sourced     |
| CF774 | MC FSC                  | S2080    | BG40BR        | Responsibly sourced     |
| AN623 | MC Primecoat FSC        | S2065    | BG40BR        | Responsibly sourced     |
| AA934 | MC Primecoat FSC        | S260N    | BG40BR        | Responsibly sourced     |
| AA003 | MC Primecoat FSC        | R5000N   | BG40BR        | Responsibly sourced     |
| AN589 | MC Primecoat FSC        | C2075N   | BG40BR        | Responsibly sourced     |
| BC575 | MC Primecoat FSC        | C2040    | BG40BR        | Responsibly sourced     |
| AG168 | MC Primecoat FSC        | S2800    | BG40BR        | Responsibly sourced     |
| BU370 | MC Primecoat FSC        | WX6060   | BG40BR        | Responsibly sourced     |
| AA286 | PB MC Primecoat FSC     | 2XS2000N | BG40WH/BG40BR | Responsibly sourced     |
| AA278 | MC Plus FSC             | S2000N   | BG40BR        | Responsibly sourced     |
| AL295 | MC Plus FSC             | S2045N   | BG40BR        | Responsibly sourced     |
| BQ119 | MC Plus FSC             | C2040    | BG40BR        | Responsibly sourced     |
| BS632 | MC Plus FSC             | S2000N   | PET23         | Responsibly sourced     |
| AA049 | MC90 FSC                | S2000N   | BG40BR        | Responsibly sourced     |
| AL305 | MC90 FSC                | S2045N   | BG40BR        | Responsibly sourced     |
| BX209 | MC Premium FSC          | S2000NG  | BG40BR        | Responsibly sourced     |
| BV338 | MC Premium FSC          | S2045N   | BG40BR        | Responsibly sourced     |
| BX507 | MC Premium FSC          | R5000N   | BG40BR        | Responsibly sourced     |
| BT441 | rMC FSC                 | S2550    | rBG40BR FSC   | Recycled content        |
| CG515 | rMC FSC                 | S2045N   | rBG40BR FSC   | Recycled content        |
| BT618 | rMC FSC                 | R5000N   | rBG40BR FSC   | Recycled content        |
| BT942 | rMC FSC                 | S2000N   | rPET23        | Recycled content        |
| BV110 | rMC FSC                 | WX6030   | BG40BR FSC    | Recycled content        |
| CI881 | rMC 100pct FSC Recycled | S2045N   | rBG40BR FSC   | Recycled content        |
| CH691 | rMC 100pct FSC Recycled | C2075N   | BG40BR        | Recycled content        |
| AA540 | Coated Card135 FSC      | S2045N   | BG40BR        | Responsibly sourced     |
| BG614 | Coated Card150 FSC      | S2045N   | BG40BR        | Responsibly sourced     |

**Coated papers — Gloss**

| Code  | Facestock | Adhesive | Liner  | Sustainability category |
|-------|-----------|----------|--------|-------------------------|
| BG734 | Gloss FSC | S2000NG  | BG40BR | Responsibly sourced     |
| AL297 | Gloss FSC | S2045N   | BG40BR | Responsibly sourced     |
| AA037 | Gloss FSC | R5000N   | BG40BR | Responsibly sourced     |

**Coated papers — Cast gloss / High gloss white (HGW)**

| Code  | Facestock          | Adhesive | Liner             | Sustainability category |
|-------|--------------------|----------|-------------------|-------------------------|
| BP255 | HGW Premium FSC    | S2550    | BG40BR            | Responsibly sourced     |
| AL298 | HGW Premium FSC    | S2045N   | BG40BR            | Responsibly sourced     |
| BP796 | HGW Premium FSC    | R5000N   | BG40BR            | Responsibly sourced     |
| AA040 | HGW Premium FSC    | C2075N   | BG40BR            | Responsibly sourced     |
| AA288 | PB HGW Premium FSC | 2XS2000N | BG40WH/BG40BR FSC | Responsibly sourced     |

**Special papers — Metalized papers (MP) and foils**

| Code  | Facestock                | Adhesive | Liner      | Sustainability category |
|-------|--------------------------|----------|------------|-------------------------|
| BG732 | MP Plus Silver FSC       | S2000NG  | BG40BR     | Responsibly sourced     |
| AL326 | MP Plus Silver FSC       | S2045N   | BG40BR IMP | Responsibly sourced     |
| CM055 | MP Plus Silver NG FSC    | S2045N   | BG40BR IMP | Responsibly sourced     |
| AF834 | MP Plus Silver FSC       | S2045N   | BG40BR     | Responsibly sourced     |
| AR032 | MP Plus Silver FSC       | S2000N   | rPET23     | Recycled content        |
| AV034 | MP Plus Matt Silver FSC  | S2000N   | BG40BR     | Responsibly sourced     |
| AI454 | MP Plus Gold FSC         | S2045N   | BG40BR     | Responsibly sourced     |
| AY926 | MP Plus Gold FSC         | S2000N   | BG40BR     | Responsibly sourced     |
| AN163 | Bright Foil Silver FSC   | S2000N   | BG40BR FSC | Responsibly sourced     |
| AO432 | Bright Foil Silver FSC   | S2045N   | BG40BR     | Responsibly sourced     |
| CH643 | Bright Foil Gold New FSC | S2000N   | BG40BR FSC | Responsibly sourced     |
| CH645 | Bright Foil Gold New FSC | S2045N   | BG40BR     | Responsibly sourced     |
| A0197 | Dull Foil Silver FSC     | S2000N   | BG40BR FSC | Responsibly sourced     |
| AN190 | Dull Foil Silver FSC     | S2045N   | BG40BR     | Responsibly sourced     |
| AO750 | Dull Foil Gold FSC       | S2000N   | BG40BR FSC | Responsibly sourced     |
| AO749 | Dull Foil Gold FSC       | S2045N   | BG40BR     | Responsibly sourced     |

**Special papers — Grease-proof**

| Code  | Facestock         | Adhesive | Liner  | Sustainability category |
|-------|-------------------|----------|--------|-------------------------|
| AM256 | Greaseproof80 FSC | S2045N   | BG40BR | Responsibly sourced     |
| CG135 | Greaseproof80 FSC | S2045N   | rPET23 | Recycled content        |
| AG167 | Greaseproof FSC   | S2800    | BG40BR | Responsibly sourced     |

## Special papers — Radiant papers

| Code  | Facestock              | Adhesive | Liner      | Sustainability category |
|-------|------------------------|----------|------------|-------------------------|
| AA276 | Radiant Pink FSC       | S2000N   | BG40BR FSC | Responsibly sourced     |
| BJ335 | Radiant Chartreuse FSC | S2550    | BG40BR     | Responsibly sourced     |
| BJ337 | Radiant Orange FSC     | S2550    | BG40BR     | Responsibly sourced     |
| BJ338 | Radiant Red FSC        | S2550    | BG40BR     | Responsibly sourced     |
| BJ339 | Radiant Green FSC      | S2550    | BG40BR     | Responsibly sourced     |
| BJ614 | Radiant Chartreuse FSC | S2045N   | BG40BR     | Responsibly sourced     |
| BJ615 | Radiant Orange FSC     | S2045N   | BG40BR     | Responsibly sourced     |
| BJ616 | Radiant Green FSC      | S2045N   | BG40BR     | Responsibly sourced     |
| BJ617 | Radiant Red FSC        | S2045N   | BG40BR     | Responsibly sourced     |
| BK677 | Radiant Chartreuse FSC | R5000N   | BG40BR FSC | Responsibly sourced     |
| BK678 | Radiant Orange FSC     | R5000N   | BG40BR FSC | Responsibly sourced     |
| BK679 | Radiant Red FSC        | R5000N   | BG40BR FSC | Responsibly sourced     |
| BV356 | Radiant Red FSC        | WX6030   | BG40BR FSC | Responsibly sourced     |

## Variable information (VI) papers — Uncoated papers for thermal transfer printing

| Code          | Facestock            | Adhesive | Liner         | Sustainability category |
|---------------|----------------------|----------|---------------|-------------------------|
| BC679 / CJ512 | Transfer Vellum FSC  | S2000NG  | BG40BR        | Responsibly sourced     |
| BU925 / CK068 | Transfer Vellum FSC  | S2046    | BG40BR        | Responsibly sourced     |
| CG209         | Transfer Vellum FSC  | S2000N   | rPET23        | Recycled content        |
| CK618         | Transfer Vellum FSC  | R5000N   | BG40BR        | Responsibly sourced     |
| AZ934         | Transfer Vellum FSC  | C2040    | BG40BR        | Responsibly sourced     |
| AN751         | Transfer Vellum FSC  | C2075N   | BG40BR        | Responsibly sourced     |
| BT384         | Vellum Extra FSC     | WX6030   | BG40BR FSC    | Responsibly sourced     |
| AA254         | PB Vellum Extra FSC  | 2XS2000N | BG40WH/BG40BR | Responsibly sourced     |
| CJ895         | rVellum FSC Recycled | S2045N   | rBG40BR FSC   | Recycled content        |

## VI papers — Coated papers for thermal transfer printing

| Code  | Facestock             | Adhesive | Liner  | Sustainability category |
|-------|-----------------------|----------|--------|-------------------------|
| AF245 | Transfer Plus FSC     | S2000N   | BG40BR | Responsibly sourced     |
| AL315 | Transfer Plus FSC     | S2045N   | BG40BR | Responsibly sourced     |
| AM135 | Transfer Plus FSC     | R5000N   | BG40BR | Responsibly sourced     |
| AL301 | Transfer Superior FSC | S2045N   | BG40BR | Responsibly sourced     |
| BJ300 | Transfer Superior FSC | S2000NG  | BG40BR | Responsibly sourced     |

## VI papers — Uncoated papers for direct thermal printing

| Code  | Facestock           | Adhesive | Liner      | Sustainability category |
|-------|---------------------|----------|------------|-------------------------|
| BS444 | Thermal Eco RDX FSC | S2000NG  | BG30BR FSC | Reduce material use     |
| BS539 | Thermal Eco RDX FSC | S2045N   | BG30BR FSC | Reduce material use     |

Continued on next page →

## VI papers — Uncoated papers for direct thermal printing (continued)

| Code  | Facestock                | Adhesive | Liner       | Sustainability category |
|-------|--------------------------|----------|-------------|-------------------------|
| BK645 | Thermal Eco BPA Free FSC | S2000NG  | BG40BR      | Responsibly sourced     |
| BM312 | Thermal Eco BPA Free FSC | S2045N   | BG40BR      | Responsibly sourced     |
| BS239 | Thermal Eco BPA Free FSC | S2550    | BG40BR      | Responsibly sourced     |
| BY864 | Thermal Eco BPA Free FSC | S2045N   | rPET23      | Responsibly sourced     |
| BM313 | Thermal Eco BPA Free FSC | R5000N   | BG40BR      | Responsibly sourced     |
| BU378 | Thermal Eco BPA Free FSC | WX6030   | BG40BR FSC  | Responsibly sourced     |
| CI889 | Thermal Eco NP FSC       | S2000NG  | rBG40BR FSC | Responsibly sourced     |
| CI890 | Thermal Eco NP FSC       | S2045N   | rBG40BR FSC | Responsibly sourced     |
| CI880 | Thermal Eco NP FSC       | R5000N   | rBG40BR FSC | Responsibly sourced     |
| CI882 | rDT Eco BPA Free FSC     | S2045N   | rBG40BR FSC | Recycled content        |
| BZ641 | rDT Eco BPA Free FSC     | S2045N   | BG30BR FSC  | Recycled content        |
| CI422 | BTAG Eco BPAF FSC/PP     | S2000N   | MG40WH FSC  | Responsibly sourced     |

## VI papers — Topcoated papers for direct thermal printing

| Code  | Facestock                  | Adhesive | Liner      | Sustainability category |
|-------|----------------------------|----------|------------|-------------------------|
| BS206 | Thermal 200RDX/L FSC       | S2045N   | BG30BR FSC | Reduce material use     |
| BS462 | Thermal 200RDX/L FSC       | S2000NG  | BG30BR FSC | Reduce material use     |
| BZ210 | Thermal 200RDX/F FSC       | S2045N   | BG30BR FSC | Reduce material use     |
| CK286 | Thermal 200GPL NP FSC      | S2045N   | BG40BR     | Responsibly sourced     |
| CK889 | Thermal 200GP NP FSC       | S2550    | BG40BR     | Responsibly sourced     |
| CK891 | Thermal 200GP NP FSC       | S2045N   | BG40BR     | Responsibly sourced     |
| CM279 | Thermal 200GP NP FSC       | S2000N   | rPET23     | Recycled content        |
| CM242 | Thermal 200GP NP FSC       | S2065N   | BG40BR     | Responsibly sourced     |
| CM243 | Thermal 200GP NP FSC       | R5000N   | BG40BR     | Responsibly sourced     |
| CM251 | Thermal 200GP NP FSC       | C2040    | BG40BR     | Responsibly sourced     |
| BZ090 | Thermal 200HD Extra FSC    | S2045N   | BG40BR     | Responsibly sourced     |
| BZ940 | Thermal 200HD Extra FSC    | S2065N   | BG40BR     | Responsibly sourced     |
| CJ772 | Thermal 200HD Superior FSC | S2045N   | BG40BR     | Responsibly sourced     |
| BS770 | Thermal 200HD Plus NP FSC  | S2045N   | BG40BR     | Responsibly sourced     |
| CI847 | Thermal 200HD Plus NP FSC  | S2045N   | rPET23     | Responsibly sourced     |
| BU298 | Thermal 200HD Plus NP FSC  | S2065N   | BG40BR     | Responsibly sourced     |
| BU296 | Thermal 200HD Plus NP FSC  | R5000N   | BG40BR     | Responsibly sourced     |
| BU294 | Thermal 200HD Plus NP FSC  | C2075N   | BG40BR     | Responsibly sourced     |
| AB042 | Thermal 200SHD FSC         | S2000N   | BG40BR     | Responsibly sourced     |
| AL328 | Thermal 200SHD FSC         | S2045N   | BG40BR     | Responsibly sourced     |
| AL312 | Thermal 300GP FSC          | S2045N   | BG40BR FSC | Responsibly sourced     |
| BT385 | Thermal Top S8 FSC         | WX6030   | BG40BR FSC | Responsibly sourced     |
| AG446 | PB Thermal Top S8 FSC      | 2XS2045N | 2XBG40BR   | Responsibly sourced     |
| CK887 | BTAG Top NP FSC/PP         | S2000N   | MG40WH FSC | Responsibly sourced     |

## VI papers — Laser copier and inkjet papers (LCJ)

| Code  | Facestock         | Adhesive | Liner    | Sustainability category |
|-------|-------------------|----------|----------|-------------------------|
| BF386 | LCJ Flex RDX FSC  | S2012HTC | HF60 FSC | Reduce material use     |
| AY050 | LCJ Basic FSC     | S2012HT  | HF52 FSC | Responsibly sourced     |
| AS492 | LCJ Premium FSC   | LR2N     | HF55 FSC | Responsibly sourced     |
| CK998 | LCJ Basic FSC     | S2012HTC | HF75 FSC | Responsibly sourced     |
| AN094 | LCJ Premium FSC   | LR2N     | HF75 FSC | Responsibly sourced     |
| AZ600 | LCJ Supreme FSC   | S2012HTC | HF55 FSC | Responsibly sourced     |
| AP444 | LCJ70 Premium FSC | LR3      | HF55 FSC | Responsibly sourced     |
| BS173 | LCJ FSC RECLD     | S2012HTC | HF75 FSC | Recycled content        |

## VI papers — White uncoated (for impact printing and fan-folding)

| Code  | Facestock  | Adhesive | Liner        | Sustainability category |
|-------|------------|----------|--------------|-------------------------|
| CK996 | DATA FSC   | S2000NG  | HF75 FSC     | Responsibly sourced     |
| AG373 | DATA FSC   | R5000N   | HF75 FSC     | Responsibly sourced     |
| BK684 | Zigzag FSC | S2000NG  | BG40BR       | Responsibly sourced     |
| BK683 | Zigzag FSC | S2000NG  | HF75 FSC     | Responsibly sourced     |
| AL306 | Zigzag FSC | S2045N   | HF75 FSC IMP | Responsibly sourced     |

## Compostable papers

| Code  | Facestock              | Adhesive | Liner      | Sustainability category    |
|-------|------------------------|----------|------------|----------------------------|
| AM234 | MC Primecoat FSC       | S9500    | BG40WH FSC | Enables recycling or reuse |
| AM424 | Transfer Vellum FSC    | S9500    | BG40WH FSC | Enables recycling or reuse |
| AM395 | Cane Fiber Paper White | S9500    | BG45WH     | Enables recycling or reuse |

## AD XeroLInr DT (Direct Thermal Linerless)

| Code      | Facestock          | Adhesive | Liner    | Width (mm) | Length (LM) | Core (+/- mm) | Sustainability category |
|-----------|--------------------|----------|----------|------------|-------------|---------------|-------------------------|
| CK5150007 | XeroLInr DT NP FSC | S2045LL  | No liner | 100        | 90          | 25            | Reduce material use     |
| CK5150008 | XeroLInr DT NP FSC | S2045LL  | No liner | 100        | 90          | 40            | Reduce material use     |
| CK5150009 | XeroLInr DT NP FSC | S2045LL  | No liner | 100        | 250         | 76            | Reduce material use     |
| CK5160009 | XeroLInr DT NP FSC | S2045LL  | No liner | 58         | 80          | 25            | Reduce material use     |
| CK5160010 | XeroLInr DT NP FSC | S2045LL  | No liner | 58         | 65          | 40            | Reduce material use     |



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