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#### Office and printing papers

From transparent envelop windows to colored sticky notes and thin print papers, see how our wide range of specialty papers can help in developing sustainable products making our everyday life easier and more sustainable whether at home or at work.

#### Palettera® Colored Papers



50+ years of technical and manufacturing experience making colored paper 225+ colored and blended grades made today – excellent color matching services Variety of surface treatments available to suit your needs Flame, water, mold, heat resistance

From red Valentine's hearts and blue waters to white drawing tablet papers, Ahlstrom-Munksjö's Palettera® Papers provide a vibrant color spectrum for a variety of arts and crafts. Palettera® colors are available using both virgin and recycled fibers.

Fiber

- Bleached
- trulyNatural®
- Blend
- Pre- or post-consumer recycled

#### **Basis Weights**

- 8.5 lbs 180 lbs (per 3000ft2)
- 14 gsm to 295 gsm

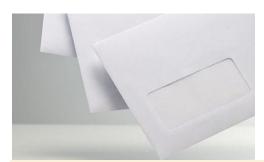
5 paper finishes: MF, MGn XKL®, SCK, Glassine, Crepe

Potential applications include paint masking, craft papers, picture frame backing, building products, box cover, ticket stock, end leaf, retail bags & packaging...Limitless!

All Palettera® papers can be produced utilizing innovative Flame-Gard® solutions. Ahlstrom-Munksjö is an industry leader in flame-resistant materials across a diverse range of markets and end-use applications.

Paper Finishes	Basis Weight	Fiber	Applications		
MF, MG, Glassine,	14-295 GSM	trulyNatural®	Construction Paper, Posterboard,		
SCK		Bleached	Ticket Stock, Art Paper, Window		
XKL®. Cre[e		Recycled	Shade		

#### **Envelope window paper**



Highly transparent paper for envelop windows Enables production of an all-paper envelope Recyclable and biodegradable A sustainable plastic-free alternative

Highly transparent paper for envelop windows enables the production of an all-paper envelope, sustainable, recyclable and made of renewable materials.

Many companies use window envelopes for high volume mailing. To help them build a sustainable corporate image, Ahlstrom-Munksjö offers a transparent paper that . Exclusively made from wood-based natural fibers, Cristal Evolution™ is recyclable and biodegradable. Envelopes made with paper windows are sustainable alternatives to non-renewable windows material such as plastic film.

With Cristal Evolution™ running speeds of 1,400 envelopes per minute can be achieved on modern, fast-running envelope machines. It's also cost-effective thanks to its easier adhesion (paper-to-paper) and potential savings in glue costs. Cristal Evolution™ is recommended for high volume applications and used by many leading insurance, telecommunications and banking companies.

Available in 32, 35 and 40 gsm, envelopes with Cristal Evolution™ windows run smoothly, avoiding static electricity and are recommended by leading machine manufacturers. It is more matt than other window materials thus reduces the glare effect (reflection of indent ray), which can distort the accuracy of optical readers.

### **Key benefits**

- High level of transparency
- Natural, fully renewable resource, totally recyclable and biodegradable
- With all-paper envelopes there's no need to sort before recycling
- Compatible with advanced inserting machines
- Approved by global postal services (e.g. La Poste, USPS etc.)

#### Sticky notes paper



A variety of color papers
Consistent in size and color
Special surface treatement for good glying ability
Avoid color bleeding during converting

A wide range of colored papers with unique consistency and up to 30 colors available specially designed for high quality colored sticky notes.

Sticky notes are a common feature of how we organize our lives and work. The variety of colors available helps to attract attention on shop shelves. From pastels to vivid colors, our wide range of colored Ahlstrom-Munksjö Velin™ papers offer high quality materials for the production of adhesive notes and page makers.

With up to 30 colors available, Velin™ is a calendered paper specifically designed to produce repositionable pads with consistency, in terms of size and color, allowing perfect production every time.

The Velin™ range has a special surface treatment to guarantee a good glue coating during conversion. On top of that, our colorings are chosen with special care to avoid bleeding during the converting process.

## **Key benefits**

- Up to 30 colors available with perfect color consistency to guarantee uniformed color in pads
- No curling to guarantee a flat pad
- Softness to deliver an enjoyable handwriting experience
- Smoothness and surface treatment to help chemical processes during converting

### **Uncoated graphic papers**



More than 30 colored papers Various possibilities for identification purposes and decorative stickers High thickness & good mechanical properties Uncoated or supercalendered Whether for office labels, stickers, identification labels or promotional tags, our colored papers will inspire your creative labeling to new heights.

Ahlstrom-Munksjö offers uncoated and supercalendered papers for the pressure sensitive labels used for identification purposes or decorative stickers.

Adercote<sup>™</sup> Velin are uncoated papers, available in more than 30 colors, ranging from pastel to intense, offering a wide variety of possibilities for office organization labeling.

Colored versions of Adercote<sup>™</sup> Vellum are supercalendered papers with vibrant colors. These specialty papers are particularly appreciated for their unique soft touch and high smoothness.

#### Key benefits of Adercote<sup>™</sup> Velin

- Good color evenness and uniformity
- Large choice of colors from pastel to intense
- High thickness
- · Good mechanical properties

#### Key benefits of Adercote™ Vellum

- Very high smoothness and soft to the touch
- Vibrant colors
- High thickness
- Good mechanical properties

## Uncoated thin print paper specially designed for publishing and books



The elementa® Classic Range is an uncoated thin print paper specially designed for books or publishing. It is a low weight thin print paper of recognized quality offering a high opacity and good surface for the most demanding printing applications.

- High opacity with excellent sheet formation
- Low weight paper with outstanding print- and folding properties
- Available in two shades (Bluishwhite and Cream)

Elementa® Classic has excellent stiffness and folding characteristics for well-balanced press runnability and easy converting. It's very good opacity makes it ideal for books with high pagination such as dictionaries, religious literature, law books, timetables,... This paper is well suited to 1 or

multicolor printing applications in web or sheet-fed offset and is available in two shades Bluish White and Cream.

The key characteristics of Ahlstrom-Munksjö's thin print papers are high opacity, excellent printability and foldability, as well as resistance and long-term durability. As a result of our continuous product and manufacturing development and improvement, Ahlstrom-Munksjö is one of the market's leading suppliers for leaflet printing. elementa® opaque is produced at the German Dettingen mill and available on demand with FSC® Mix sources certification.

# Pigmented high opacity thin print paper ideally suited for multicolor printing



elementa® PREMIER Bluish White is a pigmented thin print paper ideally suited to multicolor printing applications including inserts, outserts, leaflets, religious literature, multicolored catalogues, mail shots, directories, legal publishing and encyclopedias. With a Bulk of 1,15-1,2 it's thinner, with additional opacity, compared to elementa® Basic/Classic.

- Optimized surface for best printing results
- High quality thin print paper with a low Bulk of 1,15 1,2
- High opacity compared with excellent sheet formation

elementa® PREMIER has excellent opacity whilst having an enhanced surface and sheet formation for high quality printing. It's pigmented surface allows for excellent multicolor printing results without compromising on bulk, in contrast to coated papers. The shade of elementa® PREMIER makes for comfortable reading as it is easy on the eye. This paper has excellent press runnability and its pigmented surface controls ink penetration whilst giving good ink hold out when printing either web or sheet-fed offset.

The key characteristics of Ahlstrom-Munksjö's thin print papers are high opacity, excellent printability and foldability, as well as resistance and long-term durability. As a result of our continuous product and manufacturing development and improvement, Ahlstrom-Munksjö is one of the market's leading suppliers for leaflet printing. elementa® opaque is produced at the German Dettingen mill and available on demand with FSC® Mix sources certification.

elementa® PREMIER	Bluish White						
	Unit	40	45	50	60	65	
Substance	g/m²	38 - 42	43 - 47	48 - 52	58 - 62	63 - 67	
Thickness	μm	46 - 50	52 - 56	56 - 60	67 - 71	71 - 79	
Relative humidity	%	43 - 53	43 - 53	43 - 53	43 - 53	43 - 53	
pH		7 - 9,5	7 - 9,5	7 - 9,5	7 - 9,5	7 - 9,5	
Opacity	%	> 82	> 84	> 86	> 89	> 90	
Brightness D65 (R457) with UV	,	> 93	> 93	> 93	> 93	> 93	
Luminescence		> 8	> 8	> 8	> 8	> 8	
Bekk Smoothness	s	60 - 120	60 - 120	60 - 120	60 - 120	60 - 120	
Breaking length							
MD	m	> 4500	> 4500	> 4500	> 4500	> 4500	
CD	m	> 2500	> 2500	> 2500	> 2500	> 2500	

### Thin print paper elementa® opaque SMOOTH



Uncoated thin print paper designed for premium quality users.

- Unique surface smoothness
- Excellent printing results
- Available in two subtle shades (White and Cream)

The elementa® SMOOTH Range is an uncoated thin print paper specially designed for premium quality diaries. It has a unique surface smoothness and offers excellent printing results as well as good writing and erasing properties. Its silky grip and excellent legibility makes it the best choice for diary users. It is available in White and subtle Cream shade making for easy reading.

The key characteristics of Ahlstrom-Munksjö's thin print papers are high opacity, excellent printability and foldability, as well as resistance and long-term durability. As a result of our continuous product and manufacturing development and improvement, Ahlstrom-Munksjö is one of the market's leading suppliers for leaflet printing. elementa® opaque is produced at the German Dettingen mill and available on demand with FSC® Mix sources certification.

elementa® SMOOTH		White				Cream		
	Unit	50	60	70	80	60	70	80
Substance	g/m²	48 - 52	58 - 62	68 - 72	78 - 82	58 - 62	68 - 72	78 - 82
Thickness	μm	56 - 62	66-72	76 - 82	87 - 93	64 - 70	76 - 82	87 - 93
Relative humidity	%	45 - 55	45 - 55	45 - 55	45 - 55	45 - 55	45 - 55	45 - 55
pH		7 - 9,5	7 - 9,5	7 - 9,5	7 - 9,5	7 - 9,5	7 - 9,5	7 - 9,5
Opacity	%	> 79	> 84	> 87	> 89	> 84	> 87	> 89
Brightness D65 (R457) with UV		> 89	> 89	> 89	> 89			
Luminescence		> 6	> 6	> 6	> 6			
Bekk Smoothness	s	100 - 180	100 - 180	100 - 180	100 - 180	100 - 180	100 - 180	100 - 180
Breaking length								
MD	m	> 3500	> 3500	> 3500	> 3500	> 3500	> 3500	> 3500
CD	m	> 2000	> 2000	> 2000	> 2000	> 2000	> 2000	> 2000

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