



ENDURO ICE 90 SUSTAINABLE

matt 6962, 85 g/m²

Tear-resistant translucent paper manufactured entirely from sustainable resources. Ideal for tear-resistant, translucent envelopes, banners, durable inserts, document sleeves or outer packaging with barrier function.

ENDURO Ice 90 sustainable is a unique composite material consisting of a 40 µm PLA-film (Poly-Lactid-Acid) and wafer-thin, white natural paper surfaces. The three-layer product structure is durable and water impermeable. The PLA-film is made from annually renewable resources (i.e. corn) and is considered a bio-based film. The film core is sandwiched between two layers of paper, which not only provides perfect printing, but also an elegant look and feel. It can be cut, punched, perforated, drilled, embossed, scored, folded, glued and bound without issue.

The high-quality paper surfaces offer optimized feed properties and printing results. Thanks to the slightly absorbent surface, all common standard inks and varnishes can be used with thin ink application in offset printing. For more challenging layouts with higher colour saturation, we recommend printing inks with oxidative drying or UV-reactive inks. Suitable for printing on HP Indigo sheet-fed printing systems, taking our processing instructions into account.

ENDURO Ice 90 sustainable offers a sustainable alternative to conventional film products based on crude oil, i.e. PVC, PET (Polyester) or PP. The paper is of course FSC®-certified – for a totally sustainable product.

Advantages

- Sustainable: totally based on renewable resources
- Elegant transparency
- Natural feel
- Durable and long-lasting
- Water impermeable
- Excellent printability
- PVC-free



Technologies



General tips

For quality reasons ENDURO should be stored originally packed. Storage & converting conditions of 20±5°C and 50±10% rel. humidity are recommended.

Waste disposal

Due to the film content of over 50%, paper recycling is not recommendable for this product. Smaller quantities can be disposed of together with household waste. ENDURO Ice 90 sustainable is considered commercial waste similar to household waste. It is biologically neutral when landfilled.

In most cases, incineration with energy recovery is the most efficient solution from an economic and ecological point of view.

Larger quantities should be disposed of in accordance with local and national regulations. We recommend enquiring with the responsible waste disposal company.

Physical data

| Name | Value | Tolerance | Norm |
|---------------------------------------|-------|-----------|-------------------------|
| Weight [g/m ²] | 85 | ±6 | ISO 536 |
| Thickness (total) [µm] | 98 | ±7 | ISO 534 |
| Bending stiffness MD [mN] | > 70 | | ISO 2493-1; 15°/10mm |
| Bending stiffness CD [mN] | > 35 | | ISO 2493-1; 15°/10mm |
| Tensile strength MD [N/15mm] | > 60 | | ISO 1924-3/2/300 |
| Tensile strength CD [N/15mm] | > 60 | | ISO 1924-3/2/300 |
| Transparency [%] | > 60 | | DIN 53147 |
| ISO Brightness, front side [%] | > 70 | | ISO 2470-1 |
| ISO Brightness, reverse side [%] | > 70 | | ISO 2470-1 |
| Whiteness, CIE, D65/10°, front side | > 55 | | ISO 11475 |
| Whiteness, CIE, D65/10°, reverse side | > 55 | | ISO 11475 |

Printing instructions

We always recommend comprehensive testing of materials prior to regular conversion.