



ENDURO EFFECT 120 OPAQUE WHITE

matt 6670, 124 g/m²

Tear-resistant paper with high opacity due to metallised film core. Ideal for opaque and tear-resistant envelopes and mailing pouches. No internal printing necessary.

ENDURO Effect 120 Opaque is a tear-resistant composite material consisting of a metallised 35 µm PP film core and white, uncoated paper surfaces. The three-layer product structure is durable, opaque, resistant to edge tearing and water impermeable. It can be cut, punched, perforated, drilled, embossed, folded, glued and bound without issue.

High-quality paper surfaces offer optimized feed properties and printing results. Thanks to fast-acting and absorbent surfaces, all common standard inks and coating can be used in offset and flexo printing. Suitable for variable dot matrix printing. Runs through some laser printing systems, tests required in advance. With excellent drying and ink/toner adhesion. Can be stamped easily and marked manually.

Thanks to the multi-layer product structure ENDURO offers an affordable, eco-friendly and sustainable alternative to fully synthetic media. It is PVC-free and FSC®-certified.

Advantages

- High opacity
- Tear resistant
- High fold strength
- Impermeable to water
- Excellent printability



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.

Food contact

Please inform us whenever intended use is linked to food contact.

It may be possible to provide a Declaration of Compliance confirming material suitability for your specific application.

Waste disposal

ENDURO Effect 120 Opaque white has been awarded a certificate by the Cyclos-HTP Institute. According to this certificate, the majority of the paper fibres (60% of the total composite) can be recovered in the paper recycling process. The film is separated and can be used for thermal energy recovery. When sorted using near-infrared sensors (NIR), however, this product is not identified as paper.

Therefore, it should be targeted for paper recycling as commercial waste. It is classified as "Mixed waste paper, grade 5.01" according to EN 643.

Smaller quantities can be disposed of together with household waste.

As conversion (i.e. printing) may significantly change the characteristics of a product, these recycling recommendations may only apply to ENDURO material before processing.

Technologies



Properties



Physical data

Name	Value	Tolerance	Norm
Weight [g/m ²]	124	±8	ISO 536
Thickness (total) [µm]	150	±12	ISO 534
Bending stiffness MD [mN]	> 300		ISO 2493-1; 15°/10mm
Bending stiffness CD [mN]	> 100		ISO 2493-1; 15°/10mm
Tensile strength MD [N/15mm]	> 110		ISO 1924-3/2/300
Tensile strength CD [N/15mm]	> 90		ISO 1924-3/2/300
ISO Brightness, front side [%]	> 90		ISO 2470-1
ISO Brightness, reverse side [%]	> 85		ISO 2470-1
Whiteness, CIE, D65/10°, front side	> 140		ISO 11475
Whiteness, CIE, D65/10°, reverse side	> 135		ISO 11475
Opacity [%]	> 98		ISO 2471

Durability

Originally packed under recommended storage conditions ENDURO rolls and sheets can be stored for at least 3 years.

Printing instructions

Detailed recommendations for printing and processing of ENDURO can be found under [Download](#).