



ENDURO CLASSIC 90 L

matt 6901, 93 g/m²

Tear-resistant paper. Printable both sides due to an opaque film core. Ideal for maps, tear-resistant envelopes, loop-lock tags, durable instruction manuals and service booklets.

ENDURO Classic 90 L is a tear-resistant composite material consisting of a 28 µm PP film core and white, natural uncoated paper surfaces. The three-layer product structure is durable, resistant to edge tearing and water impermeable. It can be cut, punched, perforated, drilled, folded, glued and bound without issue.

High-quality paper surfaces offer optimized feed properties and printing results. Thanks to quickly penetrable and absorbent surfaces, all common standard inks and varnishes can be used in offset and flexo printing. Suitable for variable dot matrix printing, laser printing and printing on HP Indigo sheet-fed printing systems. With excellent drying and ink/toner adhesion. Can be stamped easily and lettered 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

- Tear-resistant
- High fold strength
- Water impermeable
- Excellent printability
- FSC®-certified
- PVC-free



Technologies



Properties



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

ENDURO Classic 90 L 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.

Physical data

Name	Value	Tolerance	Norm
Weight [g/m ²]	93	±10	ISO 536
Thickness (total) [µm]	97	±10	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]	> 75		ISO 1924-3/2/300
Tensile strength CD [N/15mm]	> 80		ISO 1924-3/2/300
ISO Brightness, front side [%]	> 82		ISO 2470-1
ISO Brightness, reverse side [%]	> 82		ISO 2470-1
Whiteness, CIE, D65/10°, front side	> 100		ISO 11475
Whiteness, CIE, D65/10°, reverse side	> 100		ISO 11475
Opacity [%]	> 92		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](#).