



ENDURO MD SHIELD 245

matt 6918, 240 g/m²

Tear-resistant, metal detectable paper. Ideal for loop-lock tags and hang tags in the food industry. Ensures reliable identification and product traceability. The metal detectable inner layer provides reliable detection throughout processing thus preventing contamination.

ENDURO MD Shield 245 is a hard-wearing composite material consisting of an aluminium-coated 59 µm PET film core and uncoated paper surfaces. The multi-layer product structure is robust, metal detectable, opaque, resistant to edge tearing, water impermeable and suitable for certain outdoor applications. It can be cut, punched, perforated, drilled, folded, glued and bound without issue.

High-quality paper surfaces offer optimized feed properties and printing results and can be printed with all common standard inks and coatings in offset and flexo printing. Suitable for variable thermal transfer 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

- Metal detectable
- Declaration of Compliance for food contact possible
- Increased tear resistance
- High product stability and rigidity
- Temperature resistance 250°C / 15 Min.



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.

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

According to our experience, the majority of the paper fibres (67% of the total composite) of ENDURO Effect 245 Metal detectable 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]	240	±12	ISO 536
Thickness (total) [µm]	235	±10	ISO 534
Bending stiffness MD [mN]	>1000		ISO 2493-1; 15°/10mm
Bending stiffness CD [mN]	>400		ISO 2493-1; 15°/10mm
Tensile strength MD [N/15mm]	>200		ISO 1924-3/2/300
Tensile strength CD [N/15mm]	>150		ISO 1924-3/2/300
Opacity [%]	>99		ISO 2471
ISO Brightness, front side [%]	>85		ISO 2470-1
ISO Brightness, reverse side [%]	>85		ISO 2470-1
Whiteness, CIE, D65/10°, front side	>125		ISO 11475
Whiteness, CIE, D65/10°, reverse side	>125		ISO 11475

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.