



ENVELOPES / WALLETS /
POCKETS

ENDURO EXTRA 120 K

matt 6902, 125 g/m²

As tear resistant as film – as printable as paper.
ENDURO Extra is a composite material consisting of a film core enclosed between two layers of paper. ENDURO takes the best properties of both paper and film and combines them to create perfect printability and durability. ENDURO Extra has two surfaces made of natural paper which have different degrees of whiteness.

Composite consisting of: paper - 40µm OPP film - paper

Advantages

- High tear resistance
- Durable
- Long-lasting
- Impermeable to water
- Wet-strength film core
- Dimensionally stable
- High folding strength
- Excellent printability
- Printable with absorbing printing inks
- Suitable for digital printing



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

According to our experience, the majority of the paper fibres (67% of the total composite) of ENDURO Extra 120 K 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]	125	±15	ISO 536
Thickness (total) [μm]	145	±15	ISO 534
Bending stiffness MD [mN]	> 200		ISO 2493-1; 15°/10mm
Bending stiffness CD [mN]	> 110		ISO 2493-1; 15°/10mm
Tensile strength MD [N/15mm]	> 100		ISO 1924-3/2/300
Tensile strength CD [N/15mm]	> 130		ISO 1924-3/2/300
ISO Brightness, front side [%]	> 80		ISO 2470-1
ISO Brightness, reverse side [%]	> 82		ISO 2470-1
Whiteness, CIE, D65/10°, front side	> 110		ISO 11475
Whiteness, CIE, D65/10°, reverse side	> 110		ISO 11475
Opacity [%]	> 91		ISO 2471

Printing instructions

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