RACE NUMBERS / HIKING
MAPS / OUTDOOR DISPLAY

ENDURO EFFECT 140 WATER IMPROVED

matt 6912, 145 g/m^2

Tear-resistant, water-repellent paper. Ideal for Wristbands and race numbers.

ENDURO Effect 140 Water improved is a tear-resistant composite material consisting of a 28 µm PP film core and white, glare-free paper surfaces reinforced with synthetic fibres. The three-layer product structure is durable, resistant to edge tearing and water impermeable with high wet strength. It can be cut, punched, drilled, perforated and folded without issue.

The paper surfaces are water-repellent and offer optimized feed properties and printing results. Suitable for flexo printing, conventional offset, UV offset and laser printing.

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

- Water-repellent paper surfaces
- Increased tear resistance
- High fold strength
- Water impermeable

FSC
www.fsc.org
FSC® C005732
Das Zeichen für verantwortungsvolle Waldwirtschaft

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 Effect 140 Water improved 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.

Technologies

FLX OFF LSR

Properties

- Water-repellent

Physical data

Name	Value	Tolerance	Norm
Weight [g/m²]	145	±8	ISO 536
Thickness (total) [µm]	188	±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]	> 140		ISO 1924-3/2/300
Tensile strength CD [N/15mm]	> 130		ISO 1924-3/2/300
ISO Brightness, front side [%]	> 84		ISO 2470-1
ISO Brightness, reverse side [%]	> 84		ISO 2470-1
Whiteness, CIE, D65/10°, front side	> 74		ISO 11475
Whiteness, CIE, D65/10°, reverse side	> 74		ISO 11475
Opacity [%]	> 81		ISO 2471
Tear resistance MD [N]	> 20		ASTM D1004-90
Tear resistance CD [N]	> 30		ASTM D1004-90
Initiated tear MD [N]	> 3.5		DIN 53363
Initiated tear CD [N]	> 4.5		DIN 53363

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.