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● **BEST PERFORMING PAPERS. WORLDWIDE.**

The past shapes the future

Over 120 years of outstanding technological competence in producing high-quality specialty papers and in high-end coating techniques for special applications. This is what the Felix Schoeller Group is about.

Since 1895, we are a German family business with 12 international operations. Around 2,400 employees worldwide are developing, producing and marketing numerous premium products and product components for diverse areas of application and market segments.

The Felix Schoeller Group exemplifies uncompromising quality, unique flexibility and true partnership,

“BEST PERFORMING PAPERS. WORLDWIDE.”. This is also our philosophy, which is reflected in every one of our products. It is a promise to our customers that we offer them in all our areas of business the best-possible papers for maximum design freedom and sustainable business success. Today, we are world market leader in imaging and decor paper businesses and offer a lot of new innovative products. We have a clear focus on establishing and expanding new areas of business. **p_e:smart** is part of this long-term strategy!

CHALLENGE US!

Talk to us about your needs and what we might achieve together.

● next level paper
p_e:smart



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● next level paper
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FOR NEXT-LEVEL SOLUTIONS

 **Felix Schoeller Group**
Best Performing Papers. Worldwide.

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● **THE INTELLIGENT VISION OF PAPER.**
p_e:smart. It's in your hands

Markets develop very quickly. The future is now. There are so many technical specifications that call for entirely new solutions – particularly in the field of PRINTED ELECTRONICS. This is a market with infinite possibilities. But it also has highly demanding technical requirements. Here, substrates quickly reach their limitations. The time is ripe for new methods and applications. NEXT-LEVEL PAPER. NEXT-LEVEL SOLUTIONS.

p_e:smart. GIVING YOU ADDED VALUE

Printing electronic components nowadays requires a substrate that has an extremely smooth surface and specific surface properties, particularly when organic inks are used. That is the only way to ensure that a properly functioning circuit with defined conducting paths and a high register accuracy can be produced. **p_e:smart** sets new standards here. These papers are designed for specific applications in the futuristic field of printed electronics.

p_e:smart's SPECIAL PROPERTIES:

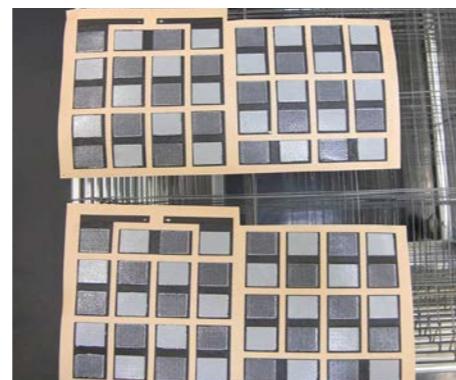
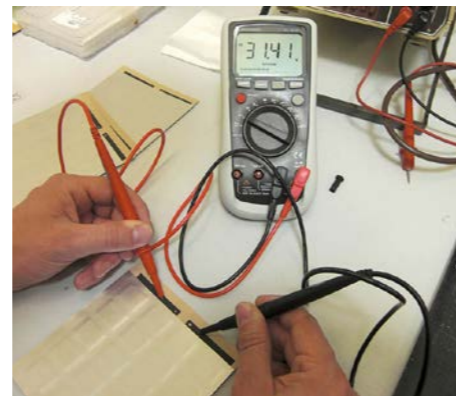
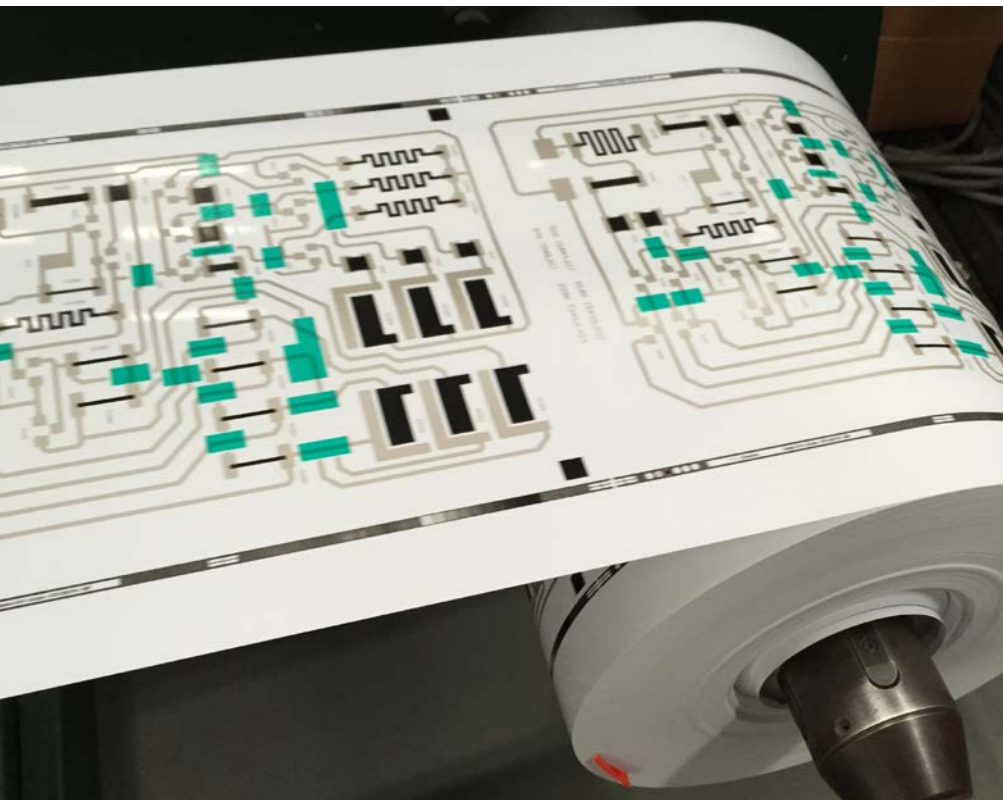
- High dimensional stability, regardless of temperature
- Extremely smooth surfaces
- Specific surface properties
- Absolute chemical purity
- Free of contaminations
- Consistent quality

p_e:smart's SPECIAL BENEFITS:

- High register accuracy
- Consistent quality
- Usable in clean room conditions
- Functional under vacuum
- Significantly less broke than conventional substrates

● next level paper

p_e:smart



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● **INNOVATION IS THE DRIVING FORCE.**
High-precision coating gives the competitive edge

Our wide range of innovations is based on extensive know-how acquired through developing and producing high-quality inkjet papers for photographic applications. High-precision coating involves using ultramodern technology to apply several thin layers of technologically complex film to webs of material.

HIGHER DIMENSIONAL STABILITY ADDS VALUE TO THE PRODUCT

Printing organic circuits requires high register accuracy to achieve the desired result. PET films have only a limited degree of dimensional stability, which makes it difficult to build multilayer systems. The name of our innovative and groundbreaking solution is **p_e:smart**. These are papers whose fibre structure produces high dimensional stability, which in turn means significantly less broke when constructing printed transistors.

HIGHEST LEVEL SUBSTRATE PURITY

The competency on which **p_e:smart** papers are based comes from the know-how we have acquired during over 120 years of producing base papers for traditional silver halide photography. The result: **p_e:smart** papers have high chemical purity and are above all free of contaminations. Carefully controlled production processes deliver papers of a consistently high quality: from one reel to the next, from one production run to the next. We offer four different types of **p_e:smart** papers to ensure compatibility with all printing technologies and all ink formulations, whether aqueous, solvent or nanoparticle solutions. Our Type 2 and Type 3 nanoporous grades can be used for inkjet printing low-resistance metallic conductors. There is no need for high-temperature sintering, the process is even possible at room temperature. The unique interaction between the paper's coating and different inks makes printing electronics on paper simple and reliable every time.

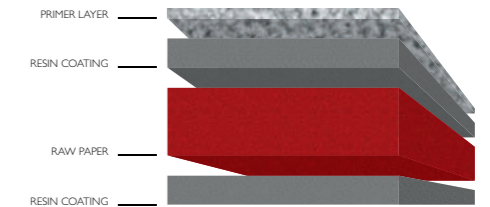
SMART PACKAGING AND RFID TECHNOLOGY FOR GREATER SUSTAINABILITY

p_e:smart can be used for a wide range of highly individual applications – in very different kinds of markets and business sectors. For all companies that use PRINTED ELECTRONICS and are looking for new solutions, **p_e:smart** is the right substrate for the job but **p_e:smart** is also about working together with clients to develop new printed electronics based systems, products and applications.

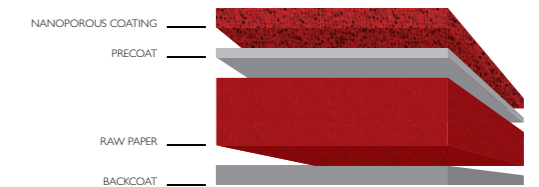
p_e:smart: NEXT-LEVEL PAPER FOR NEXT-LEVEL SOLUTIONS.

p_e:smart PAPER STRUCTURES:

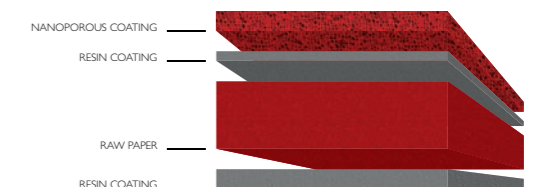
Type 1



Type 2



Type 3



Type 4

