

PLUG & PLAY

Innovative plastics solutions for the electrical and electronics industry







PLUG IN.

Welcome to ALBIS. With one of the broadest plastics portfolios in the world, we are highly accomplished technical experts and independent consultants for all matters relating to plastics. Our relationship with the electrical and electronics industry is based on decades of experience developing technical plastics compounds.

In addition to distributing Europe's leading plastics brands, we develop and produce our own special technical plastics. Our technical compounds and batches are used wherever the material must withstand challenging tasks. What sets us apart? For us, our plastics expertise doesn't end with the delivery.

Why? Because we are more than just a supplier. We are ALBIS. We have an in-depth understanding of the challenges of your industry, from the production process to the design trends of tomorrow. Combined with our plastics expertise, we can provide you with unique know-how in our capacity as technical consultants.

This brochure provides an overview that shows how we can find a solution for each of your challenges.

SWITCH ON.

“Smarter, safer, greener” - it’s the mantra for the entire industry. And it goes without saying that electrical and electronic devices must meet the highest aesthetic standards and expectations. For this reason, each new generation places increasingly complex requirements on components and materials.

When it comes to developing new components, we support you from the very first step – from compiling the requirement specification through to mold-flow and structural analyses all the way to the final color matching. With our huge range of plastics and compounds, our portfolio already has a product for virtually every requirement. And if it doesn’t? An experienced team of developers will immediately start work to find a suitable solution.

**Safety for
the user**

**Efficiency,
sustainability**

**Ease of
operation**

**Function
integration**

**Design and
aesthetics**

The solution to complex requirements can often be found in one of our products

ALCOM[®]

The diverse portfolio with numerous innovative properties: the ability to diffuse, guide or reflect light for illuminated applications, thermal and electrical conductivity for sensitive electronic components, tinting using metallic effects for covers and control elements and many more.

ALTECH[®]

Base polymer + filler + additive + color. ALTECH[®] offers a huge range of possible variations for individual requirements.

ALTECH^{NXT}PP[®]

Lower density, high strength: the basis for robust housing components that also need to be light and cost-efficient.

ALFATER^{XL}[®]

Design freedom and ease of processing, e.g. for seals, hard/soft combinations, soft-touch surfaces and other flexible components.

TEDUR[®]

High strength, temperature resistant, flame retardant: a high-performance plastic with outstanding characteristics as a lightweight alternative to metals.



**Customized solutions
for every challenge.**

The contents of this table and of the following pages only present a small part of our potential. Ask us about customized plastics solutions for your applications..

**SEAMLESS INTERACTION BETWEEN FUNCTION
AND DESIGN.**

Just how ALCOM® LD works can be very easily and clearly illustrated: Take a standard translucent plastic part and place it over a bright light source. Is the light now significantly darker than previously? Or can you make out the light source through the plastic as a bright point of light? Then you can see what you won't see with us – because ALCOM® LD combines excellent light transmission with high homogeneity and virtually loss-free light diffusion.

This material opens up fascinating possibilities for designing luminaire covers and other backlit design elements, but also for all types of illuminated symbols and functions. It is based on PMMA and PC and can be used for injection molding and extrusion. Naturally, it also meets all of the required characteristics for use in lighting technology.



FOR LIGHTS THAT DON'T INTERFERE WITH THEIR NEIGHBORS.

Think of a program display containing closely spaced symbols. When one symbol lights up, adjacent symbols light up as well – which is confusing for the user. Light-proof trims and shafts behind the cover eliminate this problem.

For these and similar applications, we have developed the ALCOM® LB (Light Blocking) material that is both light-proof and reflective. The material can be processed on existing tools as usual, but offers decisive advantages. In the light shafts on program displays, for example, it doubles the visible luminous efficiency compared with conventional solutions while at the same time preventing the illumination of adjacent symbols. This allows much more efficient LEDs to be used to achieve the desired light output.

GRIP THE SURFACE TO GRASP THE CONCEPT.

The grip on a power tool is the key interface between man and machine. And it's here that user-friendliness, safety and looks go quite literally hand in hand. That's why our product range includes ALFATER® for creating non-slip surfaces. The thermoplastic elastomer combines many properties otherwise found only in rubber. Unlike rubber, however, it can be processed thermoplastically – and therefore much more economically – it's also easier to recycle. The material is also used for flexible connections, seals or for noise reduction.

- High flexibility from -40 to +125 °C
- Exceptional long-term aging stability
- Low density of 0.90 to 0.98 g/cm³
- Good resilience
- Easy to process
- Design freedom

TURN UP.

We are fully prepared for the next generation of plastics innovations in the E&E sector. Our understanding of plastics extends down to the minutest detail. Thanks to our decades of experience working with technical compounds for countless applications, we are thoroughly familiar with the neuralgic issues associated with challenging E&E applications. Our highly-motivated team of developers is standing by. And our passion for new challenges knows no bounds.

Now there's only one thing missing: You.

We can work together to develop the next and subsequent plastics innovation in the areas of sustainability, metal substitution or design.

You can address all questions about all aspects of E&E plastics solutions to our central point of contact.

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Of course, you are also welcome to call our offices or your local contact at any time. For a complete contact list including all ALBIS sales offices as well as our subsidiaries worldwide, please visit www.albis.com

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