

WIPAG

carbon

WELCOME

THE INNOVATIVE COMPOUNDER FOR TECHNICAL PLASTICS

WWW.WIPAG.DE

04 CARBON
COMPOUNDS



08 OTHER AREAS
OF APPLICATION



12 CONTACT



06 MARKET AUTOMOTIVE

10 ABOUT WIPAG

HIGH-PERFORMANCE
FLEXIBILITY
WELCO
ME
ECOLOGICAL
COST-EFFECTIVE

CARBON COMPOUNDS

As a material, carbon impresses due to its low weight, high rigidity and good compressive and tensile strength. It barely expands when heated, does not oxidize, is chemically stable and conducts heat and electricity. Products made from traditional carbon fiber reinforced plastic (CFRP) hold a lot of promise.

Until recently, however, the manufacturing process was cost and labor intensive. The use of WIPAG's carbon fibre reinforced plastic in granular (compound) form has changed this. Technology developed by WIPAG has made it possible to mix carbon fibre into thermoplastics and to

produce compounds in granule form. This means that the material can be used in the injection molding process, greatly simplifying further processing. The carbon fiber comes from cuttings left over from the production of modern lightweight components.

Using these fibers means that WIPAG can produce carbon fibre reinforced thermoplastic granules in a cost effective and sustainable way. Polypropylene and Polyamide based compounds are available as standard. Special compounds with different thermoplastics can also be manufactured on request.

AREA OF APPLICATION

MARKET AUTO- MOTIVE

- › METAL SUBSTITUTION FOR LIGHT WEIGHT DESIGN
- › REDUCED PLASTIC WALL THICKNESS
- › ADVANTAGES OF POLYPROPYLENE INSTEAD OF POLYAMIDE (THICKNESS, SHRINKAGE, COSTS)
- › SUSTAINABILITY THANKS TO RECYCLING
- › COST EFFECTIVE HIGH-PERFORMANCE MATERIAL

AUTOMOTIVE SECTOR

Lightweight design is ever more important in the automotive industry. Lightweight means economical yet performance-optimized vehicles and ultimately improved energy footprints.

In particular, lightweight carbon fiber reinforced thermoplastic can replace metal and offers many advantages for Electromobility. Using carbon fibre instead of glass fibre to reinforce plastic results in a reduction in density. Sustainability is a decisive factor when buying a car.

The use of resource-saving plastics is, therefore, imperative in the automotive

sector. WIPAG's carbon fibre reinforced thermoplastic compounds mean that material can be processed flexibly and cost effectively in this area. The use of Polypropylene instead of Polyamide reduces density, shrinkage and costs.

Carbon is the material of the future, especially in the high-end sector. Its versatile characteristics and high resilience along with its superior appearance makes WIPAG's carbon fibre reinforced compounds a true high-tech material, ideally suited to the manufacture of high quality products with superior technical performance.



OTHER

AREAS OF APPLI- CATION

OTHER AREAS OF APPLICATION

There are many applications for WIPAG's carbon fibre reinforced thermoplastic compounds. Thanks to its durability, it is ideally suited to the manufacture of sports and medical device products. Renewable energies benefit from the lightweight material. Its electrical conductivity makes WIPAG's carbon fibre reinforced thermoplastic compounds ideally suited for explosion protection.

SPORT & LEISURE

Sports products, e.g. for surfing, skiing, tennis, squash need, on the one hand, to be up-to-date and in keeping with current lifestyle trends but, on the other hand, they need to be highly functional. Carbon fibre reinforced thermoplastic compounds can meet all these requirements. The material is light, which means higher velocity in many sports, and it can withstand high loads. Sustainability is also an important factor for end users here.

MEDICAL DEVICES

Orthopedics, for example, benefits from the use of carbon fibre reinforced thermoplastic thanks to the lightness and stability of the material. WIPAG's carbon fibre reinforced thermoplastic compounds mean that the material can be processed very flexibly. This means that precisely adapted medical products can be manufactured with ease.

RENEWABLE ENERGY

Sustainable energy production, e.g. by means of mobile wind turbines is currently very popular. Thanks to its lightness and rigidity, carbon is the ultimate material for efficiently generating, storing and using energy.

WE ARE ALWAYS ON SITE



NEUBURG/DONAU (D)

DOVER (UK)

GARDELEGEN (D)

DETROIT (USA)



WIPAG Deutschland GmbH is a medium-sized company with headquarters in Neuburg an der Donau, Germany (since 1991) and another production site in Gardelegen, Germany (since 2001). It specializes in the manufacture of plastics processing compounds. With its innovative ideas and proprietary technology, the company is a long established supplier to the automotive sector. Joint ventures in both Kent, England and Flint, USA mean that the plastics specialist can operate internationally.

At the start of September 2014 the first production plant for the manufacture of carbon fibre reinforced thermoplastic compounds was delivered to WIPAG in Neuburg an der Donau. Since then, with patented technology, WIPAG has been able to refine the light yet robust carbon fibre reinforced thermoplastic material and so enable further processing through the relatively simple injection molding process. This has made WIPAG a high-performance, innovative and reliable partner for its customers.

WIPAG's services, products and production processes ensure energy and resource savings, thus reducing costs and protecting the environment.

Since January 1st, 2018 WIPAG is a member of the ALBIS GROUP.



A MEMBER OF THE ALBIS GROUP

**WIPAG DEUTSCHLAND GMBH
NÖRDLICHE GRÜNAUER STR. 31
86633 NEUBURG
PHONE +49(0) 8431 / 4336-0**

YOUR CONTACT: INFO@WIPAG.DE

WWW.WIPAG.DE