

LIGHTWEIGHT CONSTRUCTION APPLICATIONS



- Solutions based on various engineering thermoplastics such as **PA6**, **PA66**, **PPA**, **PPS** and **PEEK** among others
- Compounds on carbon fibres, glass beads and other fillers available
- Metal substitution with highly filled **PPA**, **PPS** and **PEEK** compounds practicable
- Customized additives for and modification of the compounds
- Colouring in all popular colour shades possible

WEIGHT REDUCTION WITH PLASTIC COMPOUNDS – BADA MAKES IT HAPPEN

Lightweight construction is a topic you cannot do without in the field of mobility – neither with regard to classic automotive engineering, nor in the continuously growing sector of electromobility, nor in aviation. Decreasing component weights help to reduce the total weight and thus energy consumption realizing a sustainable mobility.

Solutions on the basis of plastic compounds made by Bada will help you to advance this most important future technology. No matter if you are interested in substituting metal by plastic or reducing the weight of an existing plastic component – with Bada you have found the ideal partner to develop your specific customized solution with you.

The specific compound weight can be significantly reduced by using hollow glass beads without having an adverse effect on mechanical properties.

Carbon fibres achieve a very high rigidity in compounds in combination with a **25 % weight reduction** compared to glass fibre filled compounds. In addition, carbon fibres provide the compounds with **antistatic properties**.

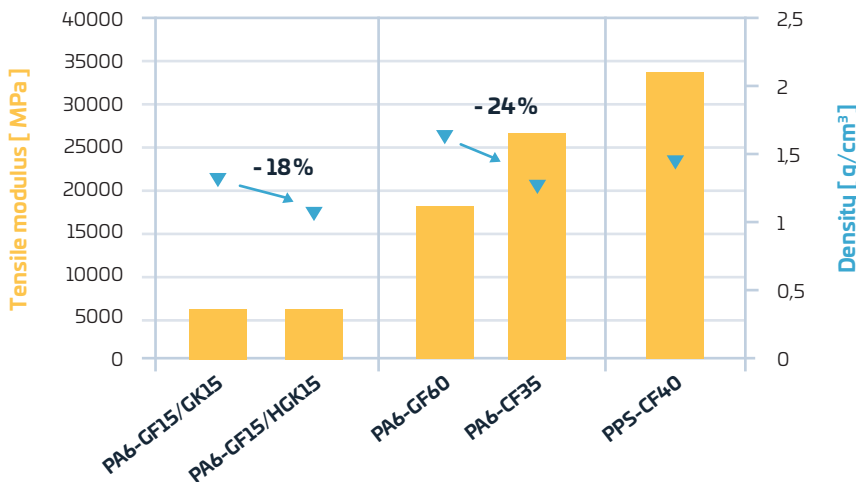
When every gram counts for a sports shoe, Bada has already assisted in finding successful solutions in the field of leisure activities.



► **FOR QUESTIONS OF LIGHTWEIGHT CONSTRUCTION, CONTACT OUR APPLICATION TECHNOLOGY DEPARTMENT.**

LIGHTWEIGHT CONSTRUCTION APPLICATIONS

A FEW EXAMPLES OF OUR PRODUCT SOLUTIONS



- As you can see, the number of possibilities is almost unlimited.
- The specific weight of **Badamid B70 GF15/GK1** is reduced by a substantial 18%, retaining its rigidity.
- **Badamid B70 CF35** weighs almost 25% less than PA6-GF60; in addition, it shows antistatic properties and enhanced rigidity.
- **Badatron PPS CF40** is our state-of the art flagship product in metal substitution. It is the ideal compound for metal substitution with its rigidity to density ratio achieving the same values as aluminium and its excellent chemical resistance.

**CUSTOMIZED MODIFICATIONS ARE AVAILABLE ON REQUEST.
PLEASE CONTACT OUR APPLICATION TECHNOLOGY DEPARTMENT!**

BADAMID®

PA6 PA66 PA66/6 PA6/6T PPA
PA46 PA9T PA12 PA612 PA610

BADATECH HT®

HIGH-PERFORMANCE COMPOUNDS

BADAGREEN®

SUSTAINABLE COMPOUNDS

BADADUR®

PBT BLENDS

BADALAC®

ABS-SPECIALITIES BLENDS

BADALON®

PC-SPECIALITIES BLENDS

BADAFLEX®

TPE-S TPU TPE-E

BADAPRENE®

TPV EPDM PP

BADATRON®

PPS

BADAPROP®

PP-SPECIALITIES



Bada AG | Untere Strut 1 | 77815 Bühl/Baden | Germany
Fon: +49 7223 94077-0 | Fax: +49 7223 94077-77 | info@bada.de

Bada Hispanaplast S.A. | Pol. Ind. Sepes | Ronda de la Industria, nº 153 | 22006 Huesca | España
Fon: +34 974 239774 | Fax: +34 974 243969 | info@bada.com.es

www.bada.de