



THE SPECIALISTS FOR
THERMOPLASTICS & ELASTOMERS

LOW FRICTION AND WEAR RESISTANT COMPOUNDS

FOR MOVING SYSTEMS

- Based on various engineering and high-temperature thermoplastics like **PA, PBT, POM, PPA, PPS, and PEEK**
- Individual addition of reinforcements and additives, adjusted to stress, sliding speed, and movement type.
- Systems for use in environments highly stressed by thermal conditions and contact with media
- Systems combining different counter-rotating partners – plastic/steel and plastic//plastic
- Coefficient of friction down to less than 0.1, wear factors C down to less than 5×10^{-6}

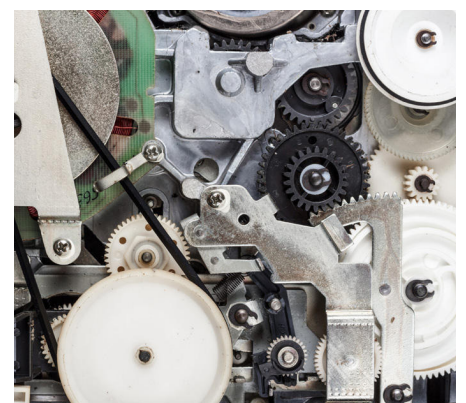
BADA TRIBOCOMPOUNDS. KEEP IT MOVING!

The service life of a moving system with plastic components strongly depends on the coefficient of friction and the wear resistance of the applied plastic. The temperature rise of the whole system due to friction, however, is also governed by ambient temperature, media contact, material, and surface quality of the counter-rotating partner.

The individual requirement profile is taken into account by Bada AG's application developers in terms of adjusted formulations. Wear and friction properties can be adjusted to the system by adding suitable reinforcements and lubricant like carbon and aramid fibres. All engineering plastics like PA, POM, PPA, and PPS can be used as polymer matrix.

Here, we focus on our principal aim to maximise the system's long-term behaviour and reliability. That is why we can do without lubricants or special surface coatings that are often applied in tribologically stressed systems.

Thus, Bada AG's low friction and wear reduced compounds are applied in various moving systems like guidance systems, bearing bushes and gears ranging from dry over self-lubricating to lubricated highly stressed systems.



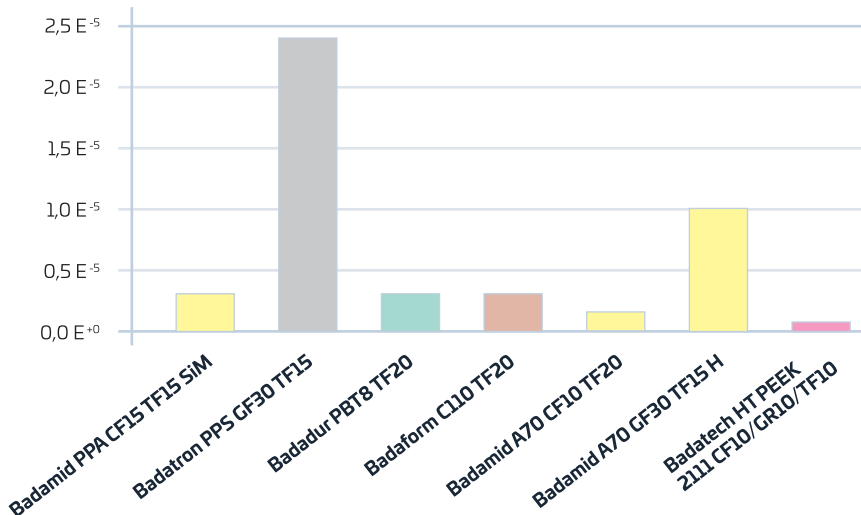
► **OUR APPLICATION TECHNOLOGY WILL BE HAPPY TO PROVIDE CONSULTANCY. CHALLENGE US!**



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Wear factor C against steel 100Cr6 @ 23°C
Testing of polymer-based plain bearing materials ISO 7148-2



EXAMPLES OF USE

Badamid PPA CF15 TF15 SiM	Stop elements with increased demands on noise reduction
Badatron PPS GF30 TF15	Gear wheels with increased demands on temperature and media resistance
Badadur PBT8 TF20	Gear wheels in servomotors with increased demands on wear resistance
Badaform C110 TF20	Sliding components with linear bearing and bearing bushes with emergency-running properties
Badamid A70 CF10 TF20	Gear segment in flap actuators requiring a low coefficient of friction
Badamid A70 GF30 TF15 H	Machine actuator with increased demands on temperature

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

BADAMID®

PA6 | PA6.6 | PA6.6/6 | PA6/6T | PPA
PA4.6 | PA10T | PA12 | PA612 | PA610

BADATECH HT®

HIGH-PERFORMANCE COMPOUNDS

BADATRON®

PPS

BADAFLEX®

TPE-S | TPU | TPE-E

BADAPRENE®

TPV (EPDM | PP)

BADADUR®

PBT | BLENDS

BADALAC®

ABS-SPECIALITIES | BLENDS

BADAFORM®

POM

BADALON®

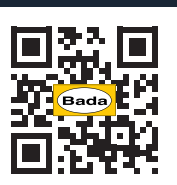
PC-SPECIALITIES | BLENDS

BADAPROP®

PP-SPECIALITIES



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