# **Highlights**by AKRO-PLASTIC GmbH AKRO-PLASTIC GmbH Member of the Feddersen Group AKRO Im Stiefelfeld 1 · 56651 Niederzissen · Germany Phone: +49(0)2636-9742-0 COMPOUNDS info@akro-plastic.com · akro-plastic.com



### **AKRO-PLASTIC GmbH**

AKRO-PLASTIC GmbH is your specialist for innovative and application-oriented plastic compounds. With more than 35 years of experience, our comprehensive knowledge of plastic compounding means we have the right solutions for your compounding need. We produce over 145,000 metric tons of plastic compounds worldwide every year and are constantly developing innovative new solutions for our customers.

We specialize in upgrading standard materials as well as engineering plastics, designed for specific industries and applications. We serve customers around the world. With production sites in Germany, Brazil and as the joint venture Highsun AKRO Engineering Materials (Changzhou) Co., Ltd. in China we serve our customers around the world. In 2024 we opened our new entity AKRO-PLASTIC INC. in the United States to extend our global network. We can offer services ranging from development right through delivery.

AKRO-PLASTIC GmbH is focused on developing plastic compounds with outstandingly good mechanical properties. Our unique compounding technology enables us to produce polymer solutions with best-in-class reproducibility, allowing you to create systems with extra tight tolerances. As an engineering plastics manufacturer, we offer flexible and individual services that are always up to date. Individuality is one of our greatest strengths. We offer a broad range of both standardized and specialized compounds as well as comprehensive knowledge about application-oriented polymer solutions.





## Sustainable in many ways

We see the consistent sustainable orientation of our company not only as a moral responsibility, but above all as a strategic decision. Our goal is to be the first contact for sustainable high-quality plastic compounds!

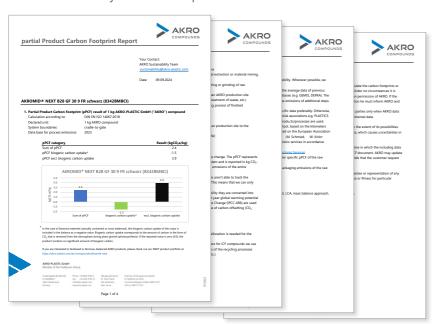


DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

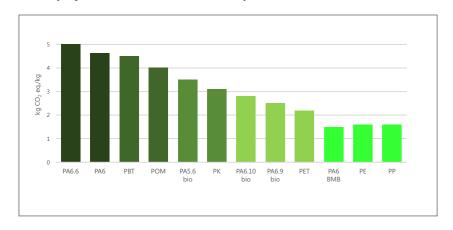
AKRO-PLASTIC GmbH has committed to set near-term company-wide emission reductions in line with climate science with the SBTi.

#### Partial product carbon footprint report

We support our customers by providing qualified advice on the selection of sustainable products and provide detailed product carbon footprint reports for all our commercially available compounds.

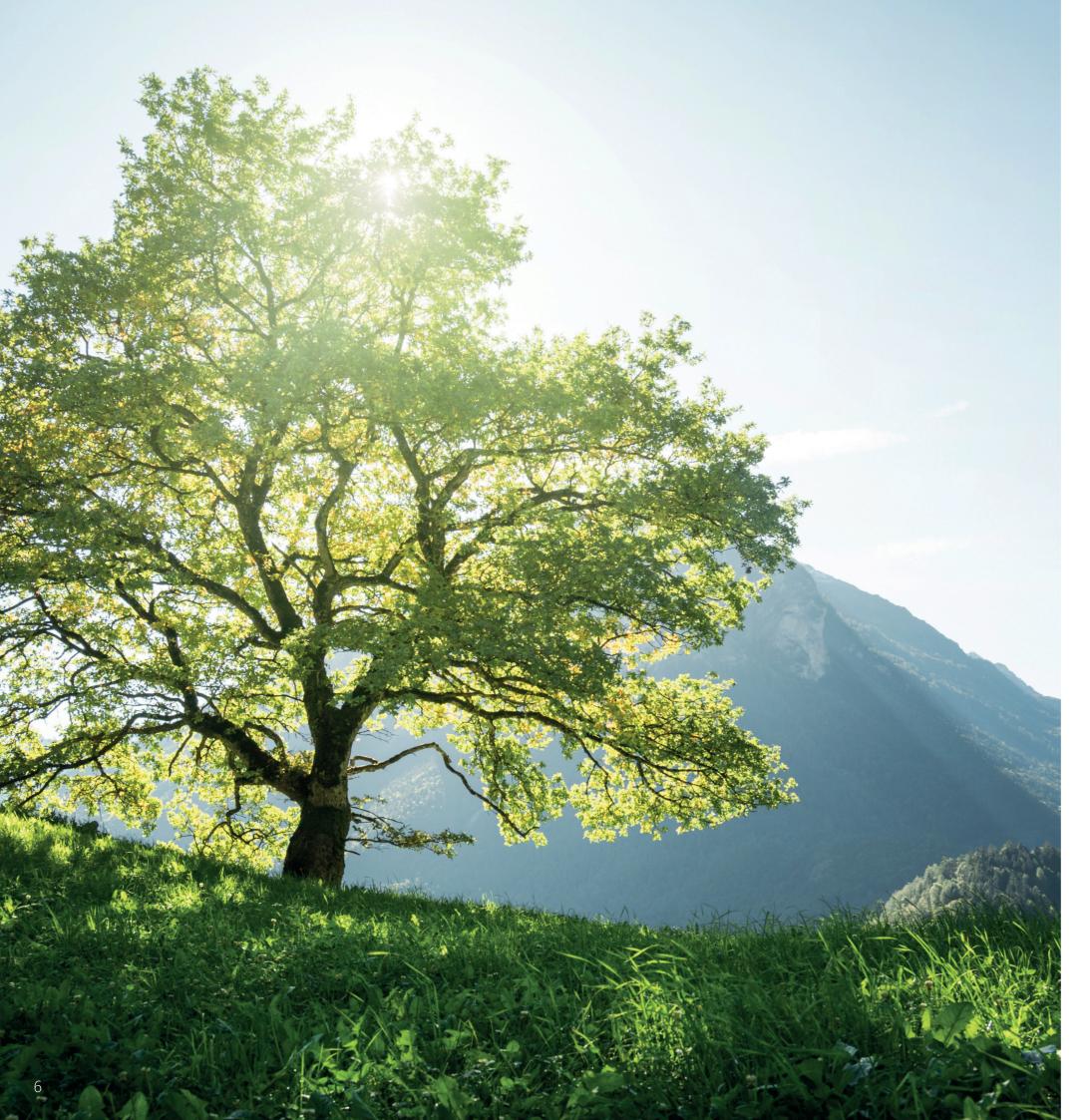


#### Use of polymers with lower carbon footprint



AKRO-PLASTIC GmbH offers ISCC PLUS certified mass-balanced products. For these, sustainably certified raw materials (biomass/recyclate) are used to replace an equivalent amount of fossil resources in the production process (mass balance approach). Thereby, AKRO-PLASTIC GmbH contributes to the bioeconomy and circular economy.





## What does sustainability mean for you?

We would like to reduce the usage of fossil feedstocks.

Our NEXT grades are made from biobased or biomass-balanced polymers.

We would like to be prepared for the upcoming end-of-life vehicle directive.

The regulation's final version, exact quotas, and effective recyclates are still pending. However, AKROMID® LITE ECO and PRECITE® ECO products containing post-consumer recyclate are expected to count towards the overall recycling quota.

We need to achieve a recycling quota of 25 %.

Our ECO grades contain at least 25 % postconsumer or post-industrial recyclates.

We are developing parts with a reduced CO<sub>2</sub> footprint.

We offer a variety of compounds with low CO<sub>2</sub> foot prints, let's help you make a smart material choice.

Reduced part weight would help us to safe energy.

Both our LITE and ICF grades with lower density, as well as special injection molding processes like GIT/ WIT or foaming, enable significant weight reductions.

Metal replacement is one of our key targets.

Our high glass fiber reinforced grades as well as carbon fiber reinforced compounds are widely used to replace metal in high-performance applications.

No matter how you define sustainability, we have the right solutions for you.

- polymers based on biomass or biomass-balanced contents
- recycled polymers
- post-industrial recycled carbon fiber compounds



## PFAS-free, Future-Proof, Flame-Retardant

All our flame-retardant products are based on the latest flame-retardant technology and are free of halogens & antimony trioxide, red phosphorous, melamine, zinc borate and PFAS. We always keep an eye on regulatory changes so that we can offer you innovative and future-proof solutions. Our portfolio includes the following product groups:

- AKROMID® A / B / C FR: polyamide 66, 6, 66/6-Blend regulatory uncritical formulation, high lot to lot consistency
- AKROTEK® PK FR: polyketone process-stabilized, moisture independant properties
- AKROMID® T9 / T91 FR: polyamide 9T low corrosion PPA, best reflow soldering performance
- AKROLOY® PARA FR: polyarylamide highest strength, stiffness & thermal runaway performance

#### Alternative to halogenated polyamide compounds containing antimony trioxide FR (17)

Due to export restrictions of antimony trioxide from China, there was a price explosion of halogenated flame-retardant polyamide compounds. AKRO-Plastic GmbH developed a halogen- and antimony trioxide free alternative:

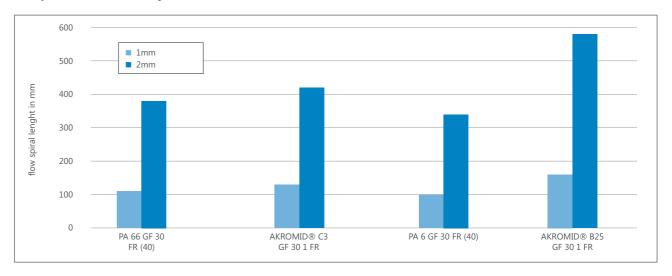
#### AKROMID® B25 GF 30 1 FR natural (8954)

- designed for highest flowability & GWIT values
- fulfills requirements of IEC 60335 GWEPT
- suitable for household appliance industry
- typical applications: connectors / relays

#### Properties AKROMID® B25 GF 30 1 FR vs halogenated compounds

	Unit	PA6 GF 30 FR (40) AKROMID® B25 GF 30 1 FR	PA66 GF 25 FR (17) Competitor 1	PA66 GF 25 FR (17) Competitor 2
Density	g/cm³	1.4	1.55	1.60
Tensile Modulus	MPa	11.000	7900	9800
Stress @ break	MPa	145	110	145
Strain @ break	%	3.0	2.1	2.3
CTI	V	600	400	350
GWIT	°C	>775	>850	>825
GWFI	°C	960	960	960

#### **Comparison of flowability**



#### Flame-retardant unreinforced polyketone – future-proof alternative to unreinforced PA FR (30) & PBT FR (40)

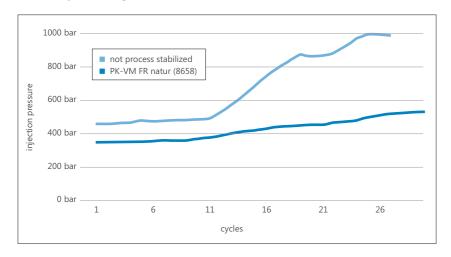
#### AKROTEK® PK-VM FR natural (8658) - stabilized for larger processing window

- · free of melamine cyanurate and melamine containing synergists, no PFAS, halogens & antimony trioxide
- combines high ductility, dimensional stability & moisture independent properties
- · higher creep resistance compared to PA, higher chemical and hydrolytic stability compared to PA & PBT
- V0 @ 0.4mm, excellent glow wire values & CTI 600
- typical applications: clamps / cable glands / electrical housing / components with snap fits and film-hinge

#### Properties PA66/PA6 FR vs AKROTEK® PK-VM FR vs PBT FR

	Unit	PA66/PA6 FR (30)	PK-VM FR (40)	PBT FR (40)
density	g/cm³	1.16	1.25	1.33
moisture uptake (70°C/62% r.h.)	%	2.5-3.0	0.5-0.7	0.1-0.3
Tensile Modulus dam/cond	MPa	3500/1500	2000	2900
yield strength dam/cond	MPa	75/45	45	40
strain @ yield dam/cond	%	4/20	19	2.6
strain @ break dam/cond	%	>10/>50	>25	5.5
charpy unnotched dam/cond	kJ/m²	80/n.b.	70	22
charpy notched dam/cond	kJ/m²	6/35	4	
UL94 V0 @	mm	0.4	0.4	0.75
GWIT/GWFI	°C	≥725/960	≥775/960	≥725/960
СТІ	V	600	600	600

#### **Broader processing window of AKROTEK® PK-VM FR**



#### Halogen-free flame-retardant PPA with low corrosion behavior & highest reflow soldering performance

Polyamide 9T offers a melting point of 305 °C and a glass transition temperature of 125 °C dam and 100 °C in conditioned state. Combined with a low moisture uptake of < 0,7 %, it is the perfect candidate for reflow soldering process. It is classified by highest JEDEC level (level 1).

#### AKROMID® T91 GF 30 FR black (8184)

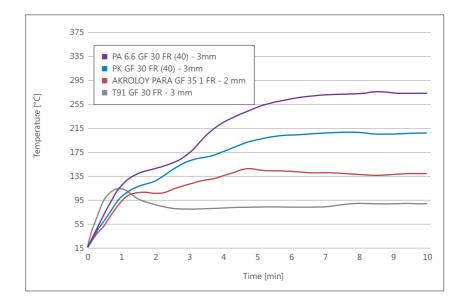
- is developed for thin-walled parts (down to 0.25mm) as it offers extreme flowability
- is designed for lowest corrosion behavior during processing
- has very high dielectric strength values up to 150 °C even in conditioned state
- offers high color stability and is colorable by AF-Color Masterbatches
- typical applications: SMT devices / parts of high voltage switches & contactors like bridge, bobbin, arching chamber / high frequency (HF) connectors / high voltage (HV) connectors

Material class	Material	Removal rate (mm/1000h)
PA66 GF 30 FR (40)	AKROMID® A3 GF 30 FR natural (7087)	9
	Competitor	14
PA6 GF 30 FR (40)	AKROMID® B25 GF 30 1 FR natural (8954)	5
	Competitor	8
PA9T GF 30 FR (40)	AKROMID® T91 GF 30 FR natral (8887)	1
	Competitor	6

#### Material for highest thermal runaway requirements - withstands temperatures of 1200 °C

Components in battery applications require robust electrical insulation properties, high dimensional & chemical stability and high thermal shielding performance in case of battery cell damage. AKROLOY® PARA GF 35 1 FR orange (8039) fulfills these needs:

- withstands 1200 °C for at least 10 minutes with high thermal insulation behavior even at 2 mm thickness
- · delivers exceptional mechanical strength, dimensional stability & low thermal expansion (CLTE)
- offers dielectric strength of 39 kV/mm and CTI of 600 V
- UL94 V0 at 0.4 mm, GWIT >775 °C
- typical applications: busbar housing, covers, frames / cell separator, frame



#### Our sustainable solutions for your flame-retardant application

Sustainability in flame-retardant materials is rather complex as high purity of raw materials is needed to maintain key properties like electrical insulation, flame retardancy, colorability, laser markability, AKRO-Plastic offers different ways to make your flame-retardant application more sustainable:

- partially recyclate content
- biomass balanced raw materials
- biobased raw materials

Together we can evaluate which solution is the most suitable for your application!

#### Our sustainable Highlights:

- AKROMID® NEXT B28 GM 15/15 1 FR black (8750BMBCI): biomass balanced raw materials & 15 % PIR very low carbon footprint; designed for low warpage applications
- AKROMID® NEXT 5.6 GF 30 FR black (8465): biobased material with 32 % biobased carbon content; green alternative to PA66 GF 30 FR

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## High performance

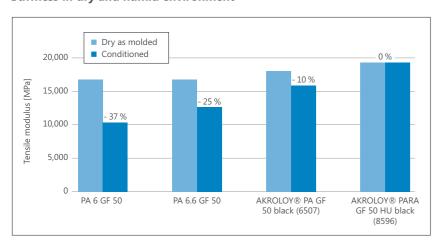
AKROLOY® PARA GF 50 HU black (8596) and GF 60 HU black (8519) are semi-aromatic compounds featuring

- high strength and stiffness
- very low influence of moisture on mechanical performance

This leads to very constant properties over a larger range of moisture and temperature conditions. Engineers can design more efficiently with less safety margin in comparison to conventional PA 6 or 6.6 compounds. This makes AKROLOY® the first choice for high demanding applications as well as metal replacement.

**AKROLOY® PARA GF 50 HU black (8596)** reaches the best-in-class strength and stiffness. Highest flow and excellent surface give molders design freedom and easy processing even for complex and thin-walled parts.

#### Stiffness in dry and humid environment



Moreover, AKRO's **long glass fiber (LGF)** reinforced compounds extend the performance of conventional products. Compared to short GF, LGF compounds show the same strength & creep at roughly 40 °C higher temperature environment, so parts can be kept at higher operating temperatures. The same effect appears after moisture uptake. **AKROMID® A28 LGF 50 9 black (7705)** has higher strength and stiffness after moisture absorption than a short GF material.

Another benefit is the improved energy absorption. Therefore, LGF compounds are often used in crash relevant applications to achieve higher product safety.

AKRO also offers a PA 6/PP blend with long glass fibers. When conditioned, the mechanical performance of **AKROMID® B28 LGF 40 1 L black (6155)** is in line with a pure PA 6 LGF or with a PA 6 with 50 % short GF. This saves density and finally weight of the part.

The LGF portfolio is extended by biomass-balanced **AKROLEN® NEXT PP LGF 40 2 CI black (8488)** with a 70 % reduced CO<sub>2</sub> footprint.



## Polyester compounds

Because of their lower carbon footprint, polyesters can be used as a sustainable alternative to polyamides. The PRECITE® portfolio focuses on reinforced PBT and PET with up to 50 % glass fiber or carbon fiber reinforcement.

#### **Benefits of polyesters:**

- high dimensional stability
- outstanding heat aging performance
- excellent sliding properties and wear resistance
- post-consumer-recycled grades
- unique stress/strain ratio

#### PRECITE® portfolio - PBT

The new PRECITE® ECO grades contain up to 30 % post-consumer PET. Its extraordinary mechanical performance makes these grades a valid, more sustainable solution against virgin materials.

- PRECITE® P3 GF 30 black (6924): general purpose high stress / strain ratio
- PRECITE® K GF 30 ECO black (8269): 30 % glass fiber PBT+rPET blend with high strength. Post-consumer PET contributes to the reduction of CO₂ emissions
- PRECITE® K GF 30 4 ECO LA (8699): PBT+rPET, hydrolysis resistant, GMA-free, laser markable, application: housing and cover (bottom left)
- PRECITE® P3 GF 30 4 LA black (8286): PBT hydrolysis-resistant and GMA-free
- PRECITE® K ICF 20 4 ECO black (8795): 20 % ICF PBT+rPET, hydrolysis resistant, application: housing and cover
- **PRECITE® K GF 50 8 natural (8710):** PBT+PET GF 50, food contact grade, free of bisphenols and their derivates, application: nutcracker (bottom right)

#### PRECITE® portfolio – PET

Generally, PET (2.2 kgCO $_2$ eq/kg) has a lower carbon footprint than PBT (4.2 kgCO $_2$ eq/kg).

- PRECITE® E GF 50 ECO schwarz (8272): Highly crystalline PET GF delivers high performance versus PPA GF while offering a lower environmental footprint with PCR content up to 30%
- PRECITE® E ICF 30 black (7429): regenerated carbon fiber reinforcement, light weight, density 1.45 g/cm³, with very high tensile modulus
- PRECITE® E GF 30 ECO black (8271): is a 30 % glass fiber reinforced, medium viscosity PET with very high stiffness and toughness. This compound contains 25 % post-consumer raw material to reduce the carbon footprint.







### Lightweight

Lightweight design is the most efficient way to reduce CO<sub>2</sub> emissions during lifetime in mobility applications.

#### There are multiple approaches for lightweight applications:

- use of a polymer with lower density: **AKROMID® Lite**
- use of reinforcement with lower density: carbon fibers (CF, ICF compounds)
- design and process approach using water-assisted injection molding or chemical foaming / MuCell® technology

#### **AKROMID®** Lite:

- approx. 8 % lower weight, good adhesion to TPE, ZnCl<sub>2</sub>-resistant.
- better dimensional stability due to less moisture absorption.
- higher flow and easy processing.
- AKROMID® B3 GF 30 1 L black (4365): with reduced density, outstanding chemical resistance and lower carbon emission
- AKROMID® B3 GF 15 1 L ECO schwarz (8968) and AKROMID® B3 GF 30 1 L ECO schwarz (8967): Blends with post-consumer recycled content (PCR) up to 25 % as sustainable alternatives

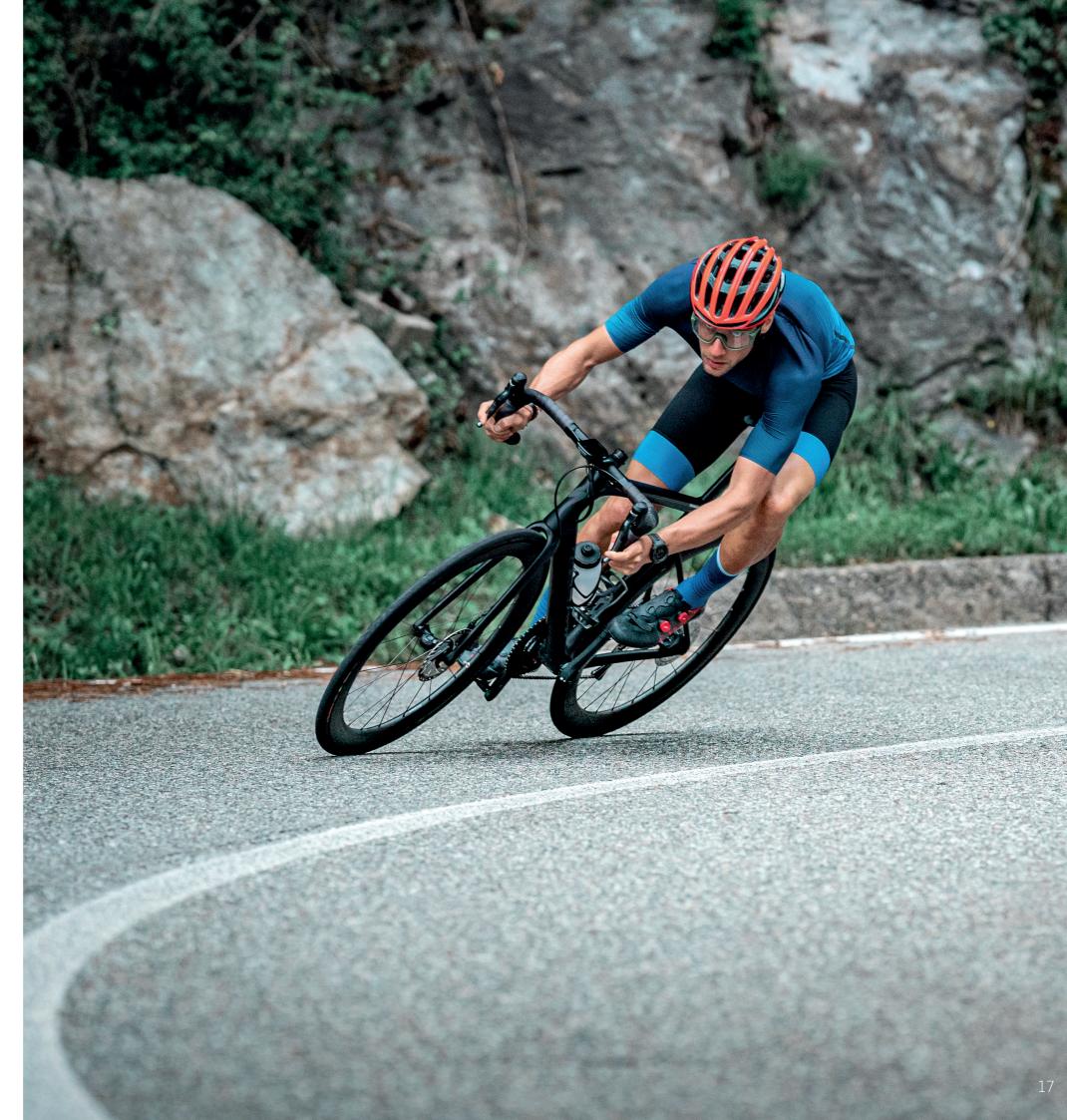
#### **ICF** reinforcement:

- AKROMID® A3 ICF 20 black (5102): offers 10 % density reduction in comparison to a conventional PA 6.6 GF 30 at similar strength.
- AKROLOY® PA ICF 40 black (5270): is combining lower density and low influence of moisture on mechanics. Applications in bicycle industry such as frame and pedal
- AKROLOY® NEXT PA CF 40 1 schwarz (8945): Combines high performance with sustainability offering the strength and ductility of a virgin carbon fiber reinforced AKROLOY® PA with a low carbon footprint

#### Foaming for further reduction of density and part weight:

- By using a standard injection-moulding grade AKROMID® B3 GF 30 6
  (20009) together with polyamide-based chemical foaming agent
  AF-Complex® PA 990906 TM natur significant weight reductions
  can be achieved, while maintaining a good surface quality.
- Foaming with core back or breathing mold process yields up to 40 % density reduction in a wide range of wall thicknesses from 2 mm up to 10 mm.







## High temperature polyamide

**AKROMID® T5** and **T9** are the high temperature polyamides in the AKRO portfolio. Other than classic PA 6 or PA 6.6, AKROMID® T compounds keep their high strength and modulus even at higher temperatures or in conditioned state.

**AKROMID® T5 GF 50 6 black (8000)** is based on PA 6T. It has a melting point of 325 °C and a Tg of 135 °C. It is an ideal engineering material for demanding applications requiring durability and strength even at elevated temperatures.

**AKROMID® T9 GF 50 black (7601)** is based on PA 9T homopolymer. The melting point of 305 °C and faster crystallization leads to easier processing. This helps the molder to achieve good part results with less effort and cost for equipment and mold design. AKROMID® T9 absorbs less moisture and achieves higher consistency of the glass transition temperature, tg. this leads to more even mechanical performance in dry or conditioned state. Engineers can design the applications more precisely and reduce safety margins with this narrower field of conditions over temperature and moisture. (Conditions over temperature & humidity in the grafic below).

The lower density of **AKROMID® T9** compounds offers an additional commercial benefit for lighter parts and less material consumption and cost. AKRO can also offer flame retardant versions like **AKROMID® T91 GF 30 FR orange (8104)** with high flow, extraordinary strength in hot and humid environments will also resist lead free soldering processes.

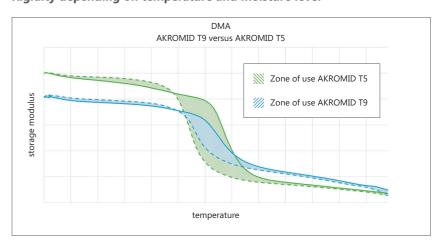
#### features of AKROMID® T

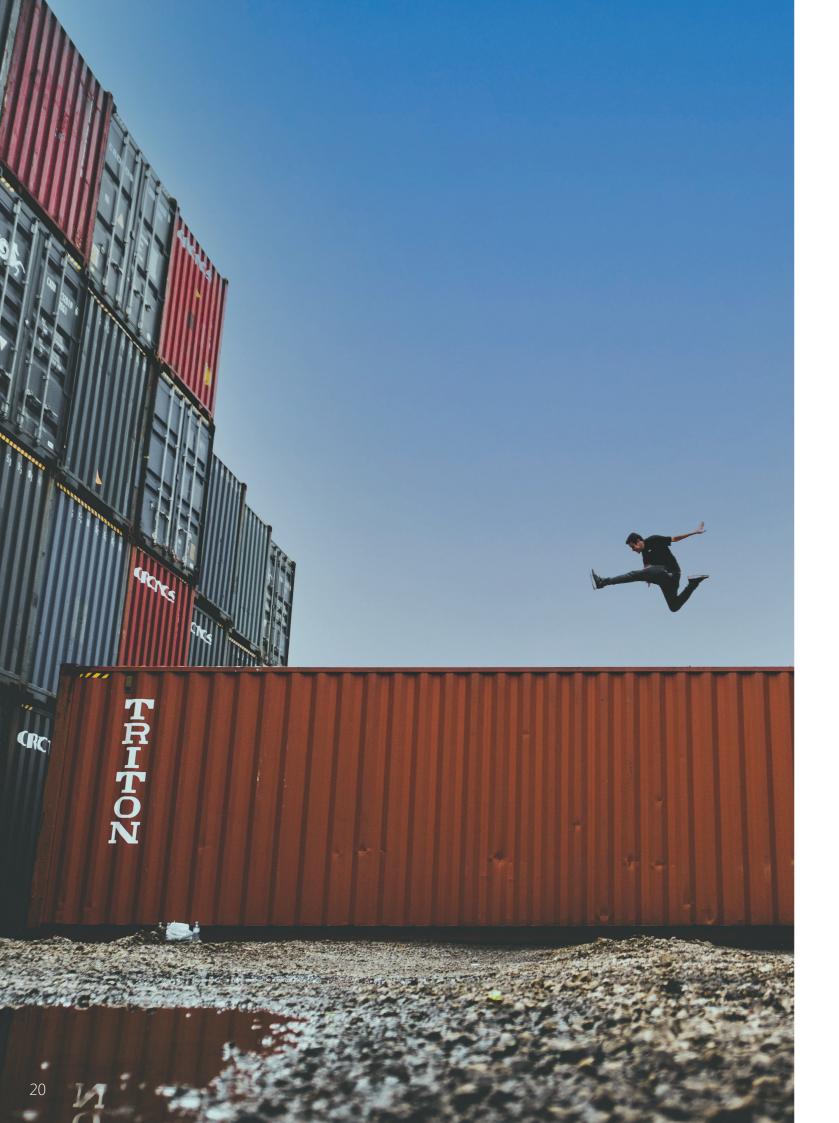
- high strength even at high temperatures
- high melting point
- low influence of moisture on mechanical properties
- excellent creep properties

#### additional features of T9

- reduced moisture uptake
- very constant mechanical properties
- improved processing, high flow
- lower density
- flame retardant grades available

#### Rigidity depending on temperature and moisture level





### Additive manufacturing

Additive manufacturing technology advances rapidly. 3D-printing becomes a well-established manufacturing process in a growing number of industries. Directly processing thermoplastic pellets using screw extrusion enables high production speeds and large parts while offering a wide material range using standard compounds. AKRO's ICF compounds combine high strength and low density with high production speeds and dimensional accuracy for additive manufacturing. Advanced surface treatment, such as wet painting Powder Coating, PU Coating can be used to achieve surface-functionality in terms of smoothening, coloring or stabilizing.

- ✓ AKROMID® B3 ICF 30 AM black (7451): large production aids like jigs, fixtures or entire handling systems with weights easily exceeding 100 kg can be printed due to high dimensional stability and mechanical properties. Structural parts with high demand for stiffness and strength are feasible with this compound.
- ✓ AKROTEK® AM ICF 20 (8722 and 8723): ABS and ASA based compounds for tooling applications up to a temperature of use temperature of 80 °C. Easy processing and excellent milling properties.
- **Ø AKROLEN® PP ICF 30 AM black (8344):** combining easy processing with good mechanical properties and chemical resistance. An easily printable multi-purpose engineering material with virtually no limitation in layer time and part size. Increasing sustainability even further **AKROLEN® NEXT PP ICF 20 AM black (8759BMBCI)** combines biomass-balanced polypropylene with recycled carbon fiber (PIR), carbon footprints as low as 0.2 kgCO₂eq/kg can be achieved.
- AKROMID® NEXT U28 ICF 40 1 black (8238): biobased PA 11 reinforced with 40 % recycled carbon fiber (PIR). This unique combination of biobased feedstocks and recycled reinforcing fiber is fit for large parts with the highest requirements in strength, stiffness and ductility at minimized density for lightweight designs. The compound is used in serial production of center console carrier. The application won the SPE Grand Award 2024 with part manufacturer BMW Group and machine manufacturer Hans Weber Maschinenfabrik GmbH as a leading example for weight-saving, functional integration, CO<sub>2</sub>-reduction and manufacturing efficiency.
- **AKROMID® B3 GF 30 AM black (8917):** PA 6 with 30 % GF providing a cost-effective alternative for large scale printing. The grade is optimized for process stability, high throughput and improved surface quality. The natural grade, **AKROMID® B3 GF 30 AM natural (8962)**, is colorable using masterbatch and optimized for structural design applications such as furniture.





### Competence Center

In AKRO Plastic's Competence Center (Technikum), we focus on the development and testing of quality compounds using a range of innovative technologies and equipment. What We Do:

- **Quality Control and Development:** We ensure the quality of our compounds by testing them on various injection molding machines and molds.
- Testing and Innovation: Our facility is equipped to test special injection molding processes with newly developed materials, testing the boundaries of what's possible in material processing.
- Problem Solving: If our customers encounter processing issues, we replicate these problems in the Competence Center to find effective solutions.
- **Training and Skill Development:** We provide education and training for our team, focusing on our compounds and the diverse molding technologies we use.
- Our center includes six injection molding machines, a laser-marking station, fluid-injection technology, an industrial pellet 3D printer, and a plasma unit, among other technologies. These resources allow us to explore and enhance different processing techniques.
- The Competence Center is where we bridge today's demands with tomorrow's innovations, making sure our compounds meet the highest standards.



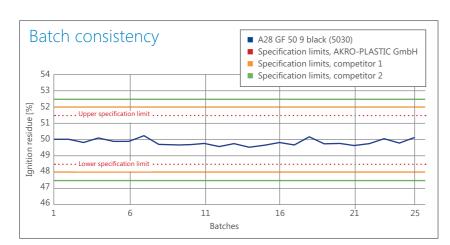




## ICX® Technology

Increasing pressure on order lead times, consistent product quality, growing product variety and global availability at competitive prices shape the business environment for compounds. The key to meeting these challenges is to ensure that the production is as flexible as possible. For this reason, we have developed the standardized machine concept <code>ICX® Technology</code> (Innovative Compounding and Extrusion Technology) in partnership with our sister company FEDDEM GmbH & Co. KG.

**ICX**® **Technology** is used at all our global production sites and, using raw materials of the same quality along with our certified quality management and in-house test laboratory, ensures the same unparalleled quality of our products worldwide. This concept leads to significant time and cost savings in material validation.











### Antistatic

With the growing electromobility market, the demands on materials are also increasing - especially as modern electric vehicles are equipped with sensitive electronic systems that require reliable protection against uncontrolled electrostatic discharge (ESD). Antistatic plastics help prevent the build-up of static electricity and thereby reduce the risk of ESD-related damage to electronic components.

Beyond automotive engineering, ESD plastics are used in many other areas: In medical technology, they protect sensitive equipment and components from harmful electrostatic discharges. In industrial applications, for example in production facilities, tools, or conveyor systems, they enhance process reliability by preventing unwanted static build-up, thereby reducing the rejection rate. For electronic components, ESD plastics are used in the transport and storage of sensitive parts, as well as in special packaging, to provide effective protection against electrostatic discharge.

To meet these requirements, AKRO-PLASTIC GmbH has developed a versatile portfolio of antistatic compounds. The antistatic properties are achieved, among other methods, through the use of carbon fibers, some of which are sourced from recycling processes. To maintain high impact strength despite the use of carbon fibers, they are specifically combined with glass fibers. Using recycled carbon fibers also contributes to the sustainability of the products.

AKRO-PLASTIC impressively demonstrates how innovative combinations of glass and carbon fibers with high-performance polymers can result in sustainable materials that meet the demanding requirements of modern electromobility.

- AKROMID® A3 CGM 10/20 4 black (5870): 10 % carbon fiber and 20 % glass fiber reinforced PA66, high stiffness and strength, hydrolysis resistant, electrically conductive, heat stabilized
- AKROMID® B3 CGM 15/20 1 LA black (8058): 15 % carbon fiber and 20 % glass fiber reinforced PA6, high stiffness and strength, electrically conductive, good laser markability
- AKROMID® D3 CGM 15/20 S1 black (6284): 15 % carbon fiber and 20 % glass fiber reinforced PA6.12, reduced moisture uptake, impact modified, high stiffness and strength, chemically resistant, suitable for media-carrying connectors, electrically conductive
- PRECITE® K ICF 20 4 ECO black (8795): 20 % recycled carbon fiber reinforced PBT/PET-Blend, reduced density and high strength, improved surface, good tribological properties, sustainable

## Thermal Management for Battery Electric Vehicle

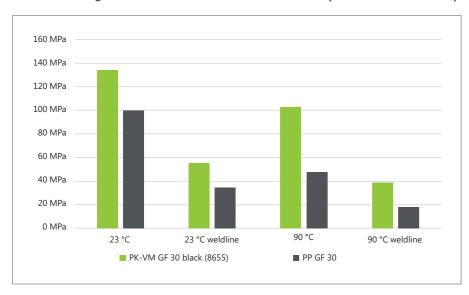
Thermal management is becoming increasingly important in the development of components for e-mobility. The challenge is to control the corresponding energy requirements for different segments such as battery, engine and electronics and interior. The temperature control of the battery plays a crucial role, especially in battery-powered vehicles. It has a decisive influence on the range of the vehicle and the speed of the charging process. With compounds based on aliphatic polyketone, we present a material group that easily meets the high material requirements for components in thermal management.

#### These include:

- very good chemical resistance, especially to water/glycol
- low CO<sub>2</sub> footprint (-28 % CO<sub>2</sub> eq/part compared to PA66 GF 30)
- low creep behavior
- very good dimensional stability

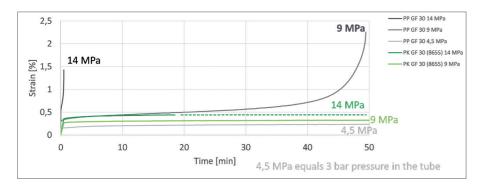
Our polyketone compounds are process-optimized and therefore offer a larger processing window.

#### Weldline strength of AKROTEK® PK GF 30 and low creep PP GF 30 under temperature 23 °C and 90 °C

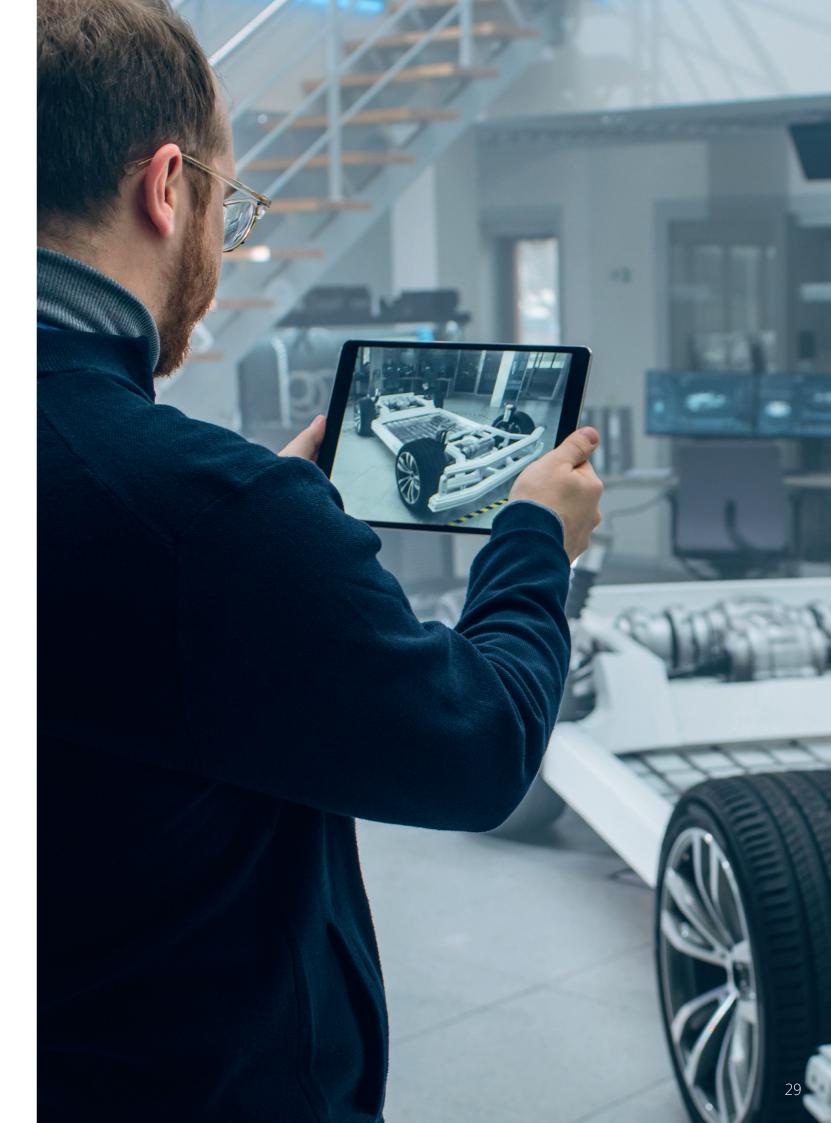


- PK weldline strength at 90 °C is higher than tensile strength of low creep PP GF 30 at room temperature.
- In the weldline, only the strength of the polymer is decisive.

#### Weldline creep behavior of AKROTEK® PK-VM GF 30 and low creep PP GF 30 at 90 °C



- PK GF 30 shows lower creep than low creep PP GF 30 and PA
- Due to the longer service life of battery-operated vehicles, PP compounds fail due to their higher tendency to creep
- Shorter cycle times with PK compared to PP and PA



### AKRO World of Values

AKRO employees across all departments and hierarchical levels have come together to reflect on what defines AKRO today, what made us strong in the past, and what should be our future direction.

One of the results of these workshops is the AKRO World of Values. It is a visual translation of our values and guiding principles. Through many small scenes, it illustrates both our identity and our ambitions and is helping us to build a unified vision for AKRO's future.

Since we live the same values both inside and outside our company, we are proud to share our AKRO World of Value with you!

**Scan** this QR code to get high resolution version of the AKRO World of Values



