

AF-Carbon®

Custom carbon black concentrates



AF-COLOR
MASTERBATCHES

Diverse applications

Injection-moulding and extrusion applications each have specific requirements profiles in terms of the quality of a black masterbatch, in particular with regard to dispersion. As the main criterion for distinguishing between grades, the dispersion quality determines whether a profile is appropriate for the application in question. Whereas in injection moulding the focus is on obtaining deep-black coloration at the lowest possible cost, higher priority is given in blow-film applications to the smallest possible residual agglomerate size.

Use in film requires top-of-the-line dispersion grades, whether for technical applications or in the food-processing industry. Poorly dispersed carbon black particles can severely degrade the mechanical strength due to thin layers.

AF-COLOR offers specially designed products which meet these challenging requirements. Engineering carbon black masterbatches based on different pigment types:

- Carbon black
- Lamp black
- Organic blackening
- Nigrosine
- Conductive carbon black
- IR-reflective preparations

Our portfolio stands apart from other products available on the market in particular because the highest quality grades are obtained even without the use of so-called dispersing agents.

In addition, we offer solutions with appropriate additive functionalities such as:

- UV (light/UV stabilisation)
- AO (process aid/antioxidant)
- WS (heat stabilisation)
- GM (process aid/lubricant)
- FR (flame retardant)



injection-moulded components ...



... and high-end film applications.

Suitable for use in

AF-Carbon®	Carbon black content [%]	PE	PP	ABS	PS	SAN	ASA	PC/ABS	PA/ABS	PC	PA	PBT	PET	POM	PVC	PK
PE 950688 black ¹	40	+	+	o	-	-	-	-	-	-	o	o	-	-	-	-
PE 950283 black	40	+	+	o	-	-	-	-	-	-	o	o	-	-	-	-
PE 950687 black ¹	30	+	+	o	-	-	-	-	-	-	o	o	-	-	-	-
PE 950277 black	30	+	+	o	-	-	-	-	-	-	o	o	-	-	-	-
PE 950231 black ¹	30	+	+	o	-	-	-	-	-	-	o	o	-	-	-	-
PP 950217 black ¹	30	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
PP 950402 black	40	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
PA 950392 black	35	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-
PA 950089 black	25	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-
PA 950698 black ¹	25	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-
PA 950610 black ¹	25	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-
PA 950515 black ²	25	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-
PA 950509 black ⁴	0	-	-	-	-	-	-	-	o	-	+	-	-	-	-	-
PA 950575 LT black ³	0	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
PBT 950280 black	20	-	-	-	-	-	-	-	-	-	o	+	o	-	-	-
PBT 950663 LT black ³	0	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
PK 950871 black	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
ABS 950239 black	25	-	-	+	-	-	-	+	+	-	-	-	-	-	-	-
ABS 950383 black ¹	25	-	-	+	-	-	-	+	+	-	-	-	-	-	-	-
PS 950371 black	30	-	-	+	+	+	o	-	-	-	-	-	-	-	-	-
PET 950791 LT black ³	10	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-
PC 950286 black ¹	20	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-
POM 950361 black ²	15	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
EBA 950459 black ¹	40	+	+	+	-	-	-	-	-	-	+	o	-	+	+	-
PLV 950489 black	10	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-

+ = suitable

o = limited suitability

- = not suitable

¹ = EU10/2011 conform formulation

² = FDA approved formulation

³ = dye based for transparent coloration

⁴ = nigrosin based

Disclaimer: This information represents the current state of our knowledge and serves as a guide only to our products and their potential applications. Liability for specific properties or suitability for any concrete operational purpose may not be assumed from the information provided. Our information and data do not free the processor and user of his or her obligation to conduct their own trials and tests for specific applications. AKROMID®, AKROLEN®, AKROLOY®, AKROTEK®, PRECITE®, AF-Carbon®, AF-Color®, AF-Complex®, AF-Clean®, ICX®, BIO-FED®, M-VERA® and AF-Eco® and are registered or applied trademarks of the Feddersen Group.



The right product for every budget.

Exceptional quality at a fair price

Of course, cost plays an important role in carbon blacks. That's why we offer at least one economy variant for each of our top-quality grades.



Carrier variety

Even with standard blacks, processing must take place as closely as possible to the final application polymer whilst taking account of the carrier material used. AF-COLOR therefore offers a product line-up which is correspondingly broad, with formulations created using virtually no additives such as waxes or metal soaps. Because we are able to draw on the tried-and-tested plant technology of our sister company FEDDEM GmbH & Co. KG – customised for our purposes – our expertise lies in process technology.



Individuality is our strength

If you require a custom-made carrier material for specific applications, such as in the area of engineering polymers, we will be happy to assist you further with a special grade.

Masterbatch competence

AF-COLOR stands for high-quality engineering masterbatches. As a branch of Niederzissen-based AKRO-PLASTIC GmbH, we maximise synergies arising from the compounding expertise available to us in research, development and production methods in order to deliver professional solutions for customer requirements.

Since 2004, AF-COLOR has been the specialist in masterbatch manufacturing, operating under its own

name within the international Feddersen Group.

In recent years, the company has continued to invest in the development and expansion of environmentally friendly production facilities and in important areas such as R&D, logistics and sales and distribution. Today, with state-of-the-art production facilities, we rank amongst the renowned suppliers of high-end masterbatches and carbon black and additive concentrates

for the global market and for a host of customer requirements. Our DQS-certified processes allow us to provide corresponding standards (ISO 9001, TS 16949 and ISO 14001), and we have continually adjusted our production capacities to meet the growing market demand.

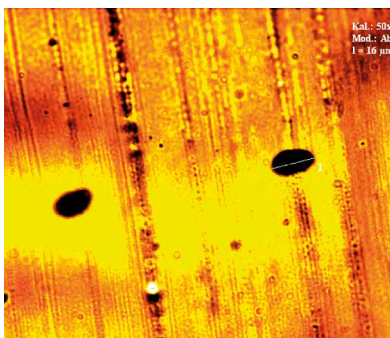
Quality is in the details. The same can be said of carbon black concentrates. Although one product may look like another at first glance, the subtle differences are hidden just beneath the surface.

Our standard portfolio includes some 30 products which vary primarily in their suitability for use in a broad range of applications, in addition to the carrier and the grade of carbon black.

The **AF-Carbon®** range of products provides a comprehensive portfolio of technically sophisticated carbon black concentrates for our clients. Different carbon blacks are used in different industries, based on the specific application.



Eco-friendly and on the cutting edge of technology: carbon black mixing area in compliance with ATEX guidelines under directive 2014/34/EU



carbon black agglomerate testing by means of interference stereomicroscopy.

Our standing in the carbon black sector is further strengthened by our environmentally friendly, state-of-the-art production facilities, where technically sophisticated batches are developed and offered to our customers in a wide range of thermoplastic carrier materials.

Use of the accredited test laboratory located on the AKRO-PLASTIC site allows numerous technical aspects to be verified and tested for maximum customer satisfaction.



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