

Our sustainable **delivery program**



 **K.D. FEDDERSEN**
DISTRIBUTION



Making a difference together

The future of our planet needs new and sustainable concepts. Engineering plastics make an important contribution to this. We are therefore committed to the responsible use of these materials along the entire value chain.

We have expanded our range of materials from alternative and sustainable sources. Through our partners Celanese, LyondellBasell, ASCEND Performance Materials, ELIX, TRINSEO, AURORA Kunststoffe GmbH, SKYTECH and BIO-FED, which as a branch of AKRO-PLASTIC GmbH also belongs to the Feddersen Group, we can offer many innovative products.

Our portfolio includes biobased and biodegradable plastics as well as from high-quality post-industrial, post-consumer and mass-balanced sources. Their property and quality level is very close or equivalent to that of new goods. In terms of the circular economy, we offer you potential solutions for reducing your CO₂ footprint.

Give us a call!



Biobased and biodegradable materials

Biobased

Made from
natural materials,
e.g. wood,
farming
waste, algae

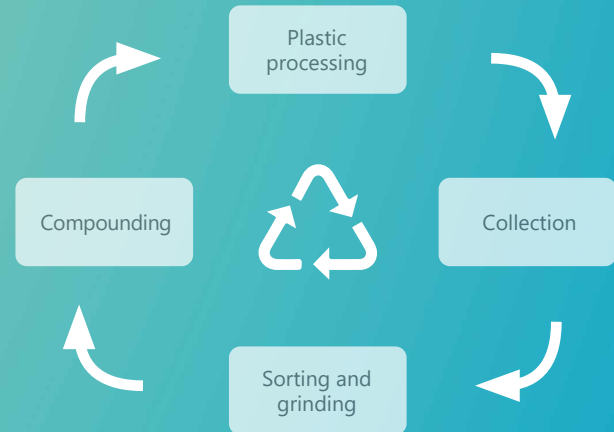
Biobased and bio- degradable materials

Biodegradable

industrial or
domestic
compostable,
e.g. OK Compost
INDUSTRIAL or HOME

Different types of recycling

- **Post-industrial recyclate (PIR)**
 - Comes from industrial waste streams (before use)
 - Generally higher quality thanks to limited heat history, known history
 - **Post-consumer recycled (PCR)**
 - Comes from consumer waste streams (after use)
 - Typically higher variability and higher degree of pollution
 - **Regrind recyclate**
 - Ground material, high variability, often contains mixed products with fillers
 - **Chemical recycling**
 - Refers to the conversion of the plastic polymers into their monomers or chemical building blocks or basic chemicals, i.e. basic chemicals, i.e. depolymerisation by means of thermochemical or chemical processes. Possible chemical recycling techniques include pyrolysis, gasification or liquefaction (e.g. oiling or solvolysis).
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- The diagram illustrates the plastic recycling process flow. It starts with 'Collection' (partially visible on the right), which leads to 'Sorting and grinding'. From there, the material goes to 'Compounding', which then leads to 'Plastic processing'. A central recycling symbol (three arrows forming a triangle) is positioned between 'Sorting and grinding' and 'Compounding', indicating the recycling loop. Arrows show the flow from Collection to Sorting and grinding, then to Compounding, then to Plastic processing, and finally back to Collection (indicated by an arrow pointing right from Plastic processing).



Application examples

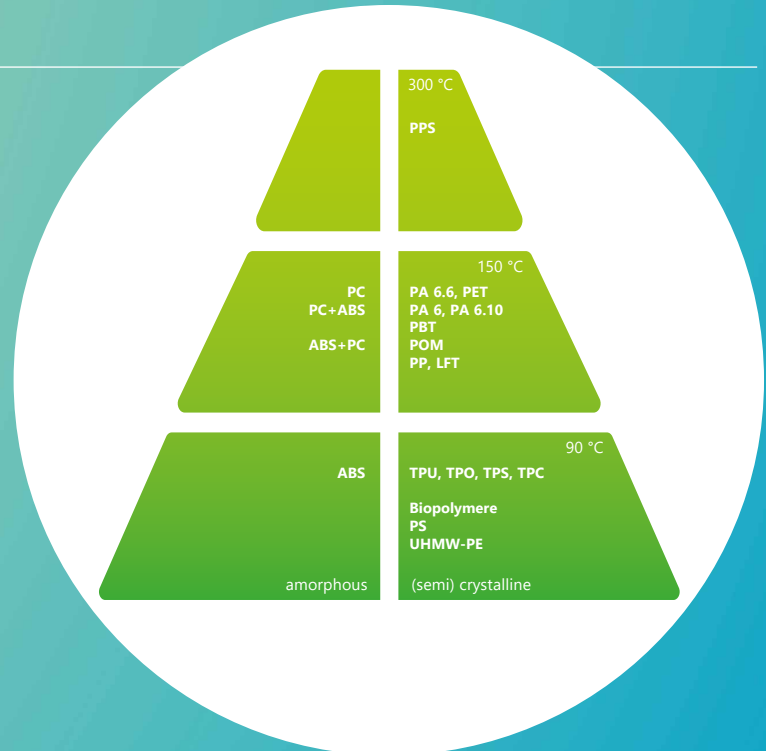


- Biobased **Fully usable, 100 % prime quality, e.g. car floor mats, handles for power tools**
- Biobased and biodegradable **Packaging and short-lived products of all kinds with a focus on limited lifespan and targeted degradation e.g. waste bags, cutlery, packaging**
- Post Industrial
Post-consumer **Universally applicable with few restrictions, property profile almost at the level of primary materials e.g. furniture hinges, housing components, panels, cable routing, spacers, brackets**
- Chemical recycling
mass balancing **Same as primary material (drop-in), therefore suitable for a wide variety of applications in different segments**

Sustainable portfolio

We offer you a wide range of sustainable engineering plastics for a wide range of applications. In the overview opposite you can see our sustainable product portfolio sorted according to the polymer types and the RTI continuous service temperature.

This overview is based on the RTI continuous service temperature of Prime-Grades. For sustainable products have not yet been explicitly measured RTI long-term service temperature long-term data are available.





Product	Polymer	Colours	Mass balance	Sample material	CO ₂ Certificates
HOSTAFORM® C 9021 ECO-B	POM	natural	In the mass balance approach, fossil fossil and biobased or recycled raw materials are mixed during production, but are reported separately.	✓	✓
HOSTAFORM® C 13021 ECO-B	POM	natural		✓	✓
HOSTAFORM® C 27021 ECO-B	POM	natural		✓	✓
In principle, it is possible to offer all POM types as well as the Eco-C (carbon capture) variant.					
CELANEX® 2500 ECO-B	PBT	natural		✓	✓
CELANEX® 2401MT ECO-B	PBT	natural		✓	✓
CELANEX® 2402MT ECO-B	PBT	natural		✓	✓



Product	Polymer	Colours	Mass balance	Sample material	CO ₂ Certificates
GUR® 2105 ECO-B	UHMW-PE	natural	In the mass balance approach, fossil fossil and biobased or recycled raw materials are mixed during production, but are reported separately.	✓	✓
GUR® 2122 ECO-B	UHMW-PE	natural		✓	✓
GUR® 4012 ECO-B	UHMW-PE	natural		✓	✓
GUR® 4120 ECO-B	UHMW-PE	natural		✓	✓
GUR® 4150 ECO-B	UHMW-PE	natural		✓	✓
GUR® 4170 ECO-B	UHMW-PE	natural		✓	✓
GUR® 8020 ECO-B	UHMW-PE	natural		✓	✓



Product	Polymer	Colours	Mass balance	Sample material	CO ₂ Certificates
CELSTRAN® PP-GF20-0553 ECO-B 352 BLACK	LFT/GF20	black	In the mass balance approach, fossil fossil and biobased or recycled raw materials are raw materials are mixed during production, but are reported separately.	✓	✓
CELSTRAN® PP-GF30-0403 ECO-B 352 P10	LFT/GF30	natural		✓	✓
CELSTRAN® PP-GF30-0403 ECO-B 352 P10/10	LFT/GF30	black		✓	✓
CELSTRAN® PP-GF30-0453 ECO-B 352 P10/10	LFT/GF30	black		✓	✓
CELSTRAN® PP-GF30-0551 ECO-B 352 P10/10	LFT/GF30	black		✓	✓
CELSTRAN® PP-GF30-0553 ECO-B 352 P10/10	LFT/GF30	black		✓	✓
CELSTRAN® PP-GF40-0453 ECO-B 352 P10/10	LFT/GF40	black		✓	✓
CELSTRAN® PP-GF40-0455 ECO-B 352 SOUL 4PK BLK	LFT/GF40	black		✓	✓



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	CO ₂ Certificates
ECOMID® B H GF30 NC 1102/2 A1A1000	PA 6 GF30	natural	✓				✓	
ECOMID® B H GF30 BK 9004/2 A1A1250	PA 6 GF30	black	✓				✓	
ECOMID® ARX H GF40 BK 9005-APC1	PA 6.6 GF40	black	✓				✓	
ECOMID® B H D11 NC 1102/2 A1A1000	PA 6	natural	✓				✓	
ECOMID® B GF20 BK 9005/Z-API1	PA 6 GF20	black	✓				✓	
ECOMID® B GF25 BK 9011-APE5	PA 6 GF25	black	✓				✓	
ECOMID® ARX H GF50 BK 9005-APC1	PA 6.6 GF50	black	✓				✓	
ECOMID® A H GF30 NC 1102/2 A1A1250	PA 6.6 GF30	natural	✓				✓	
ECOMID® B HH GF30 ECO-R	PA 6 GF30	black	✓				✓	



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	CO ₂ Certificates
ZYTEL® 70G30HSLR ECO-R 312 BK099	PA 6.6 GF30	black	✓				✓	
ZYTEL® 70G50 ECO-R 311 BLK1	PA 6.6 GF50	black	✓				✓	
ZYTEL® 73G15HSL ECO-R 311 BLK1	PA 6 GF15	black	✓				✓	
ZYTEL® 73G20UV ECO-R 311 BLK1 LM	PA 6 GF20	black	✓				✓	
ZYTEL® 73G30HSL ECO-R 311 BLK1	PA 6 GF30	black	✓				✓	
ZYTEL® 73G30L ECO-R 231 BK300	PA 6 GF30	black	✓				✓	
ZYTEL® 73G35HSL ECO-R 311 BLK1	PA 6 GF35	black	✓				✓	
ZYTEL® 73G40HSL ECO-R 311 BLK1	PA 6 GF40	black	✓				✓	
ZYTEL® 73G45 ECO-R 311 BLK1	PA 6 GF45	black	✓				✓	



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	CO ₂ Certificates
ZYTEL® 73G50HSL ECO-R 311 BLK1	PA 6 GF50	black	✓				✓	
ZYTEL® 74G35ARX ECO-R 311 BLK1	PA 6.6 GF35	black	✓				✓	
ZYTEL® 74G50ARX ECO-R 311 BLK1	PA 6.6 GF50	black	✓				✓	
ZYTEL® 80G30ARX ECO-R 311 BLK1	PA 6.6 GF30	black	✓				✓	
ZYTEL® FR73G30V0NH1 ECO-R 311 N904LM	PA 6 GF30	black	✓				✓	
ZYTEL® T70 ECO-R 311 BLK1	PA 6.6 ungefüllt	black	✓				✓	
ZYTEL® T73 ECO-R 311 BLK1	PA 6 ungefüllt	black	✓				✓	



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	CO ₂ Certificates
IMPET® 330R	PET			✓			✓	✓
IMPET® 340R	PET			✓			✓	✓
IMPET® 830R	PET			✓			✓	✓
CELANEX® 2302 GV 1/30 ECO-R	PBT/PET Blend			✓			✓	✓
CELANEX® 6402 ECO-R	PBT/PET Blend			✓			✓	✓



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	CO ₂ Certificates
<i>CirculenRecover</i> PPC EKG 2268T E BLACK	PP GF30	black	✓				✓	✓
<i>CirculenRecover</i> PPC EKC 2269T E BLACK	PP TV20	black	✓				✓	✓
<i>CirculenRecover</i> PPC PPC TYC 2180P C12A76	PP TV15	black	✓				✓	✓
<i>CirculenRecover</i> PPC PPC TRC 2179N C12A83	PP TV15	black		✓			✓	✓
<i>CirculenRecover</i> PPC TRC 352N E1 C12A19	PP TV20	black	✓				On demand	✓
<i>CirculenRecover</i> PPC EKC 330N E1 C12A19	PP TV16	black	✓				On demand	✓
<i>CirculenRecover</i> PPC PPU X9067HS C12A29	PP	black	✓				On demand	✓
Many other <i>Circulen</i> types, also for other OEMs and as PCR, are available on request								



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	CO ₂ Certificates
HiDura™ S1X NT	PA 6.10	natural			✓*		✓	✓**
HiDura™ S2X NT	PA 6.10	natural			✓*		✓	✓**
HiDura™ S3X NT	PA 6.10	natural			✓*		✓	✓**
HiDura™ S3MG30H BK0835	PA 6.10 GF 30	black			✓*			✓**
ReDefyne™ IAI2H BK0858	PA 6.6	black	✓				✓	✓**
ReDefyne™ IAG25 BK0806	PA 6.6/6 GF 25	black	✓				✓	✓**

*up to 60 % biobased **at item level



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	Certificates
ELIX® E-LOOP P2H-AT MR	ABS	black		ca. 40 %			✓	On demand
ELIX® E-LOOP H605 MR	ABS	black*		ca. 40 %			✓	On demand
ELIX® E-LOOP H801 MR	ABS+PC	black*	ca. 30 %				✓	✓
ELIX® E-LOOP Ultra 4105 MR	ABS+PC	black*	ca. 30 %				✓	✓
ELIX® E-LOOP 5120 MR	PC+ABS	black*	ca. 30 %				✓	✓
ELIX® E-LOOP 5130 MR	PC+ABS	black*	ca. 30 %				✓	✓

*OEM black tones are possible e.g. BMW black, Daimler black



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	Certificates
ALTUGLAS™ R-Life VML CLR CR50	PMMA	transparent	✓	✓			On demand	✓
ALTUGLAS™ R-Life VML CLR CR80	PMMA	transparent	✓	✓			On demand	✓
ALTUGLAS™ R-Life V825T CLR CR50	PMMA	transparent	✓	✓			On demand	✓
ALTUGLAS™ R-Life V825T RED CR50	PMMA	red	✓	✓			On demand	✓
ALTUGLAS™ R-Life V825T black MR35 black	PMMA	black	✓				On demand	✓
ALTUGLAS™ R-Life V046 Clear MR50	PMMA	transparent	✓				On demand	✓

*OEM black tones are possible e.g. BMW black, Daimler black



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	Certificates
APINAT™ BIO	TPC	*			✓	✓	✓	✓
MEGOL™ BIO	TPS	*			✓		✓	✓
APILON™ 52 BIO	TPU	*			✓		✓	✓
APIGO™ BIO	TPO	*			✓		✓	✓
APILON™ 52 ECO	TPU	*	✓				✓	✓
MEGOL™ ECO	TPS	*	✓	✓			✓	✓
TIVILON™ ECO	TPE	*	✓	✓			✓	✓
APIGO™ ECO	TPO	*	✓	✓			✓	✓

*very wide range of colors

Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	CO ₂ Certificates
AUROmid® PA66 HH GF30	PA 6.6 GF 30	black	✓				✓	
AUROmid® PA66 HGF30	PA 6.6 GF 30	black	✓				✓	
AUROmid® PA6 HGF30	PA 6 GF 30	black	✓				✓	
AUROran® ABS	ABS	black	✓				✓	
AUROblend® PC+ABS	PC+ABS	black	✓				✓	
AUROlon® PC 2407 UV	PC	black	✓				✓	
AUROform® POM-C 09	POM-C	black	✓				✓	
AUROtron® PPS GF40	PPS GF 40	black	✓				✓	
AUROdur® PBT	PBT	black	✓				✓	
AUROdur® PBT GF30	PBT GF 30	black	✓				✓	



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	CO ₂ Certificates
Skylonitrile® rABS25-10BK	ABS	black		✓			✓	✓
Skylonitrile® rABS25-12BK	ABS	black		✓			✓	✓
Skylonitrile® rABS25-14BK	ABS	black		✓			✓	✓
Skylonitrile® rABS25-16BK	ABS	black		✓			On demand	✓
Skylonitrile® rABS20-10BK HH-103	ABS	black		✓			On demand	✓
Skylonitrile® rABS10-10BK	ABS	black		✓			On demand	✓
Skylonitrile® rABS40-10BK	ABS	black		✓			On demand	✓
Skylonitrile® rABS25-12DBK	ABS	black		✓			On demand	✓
Skylonitrile® rABS25-16DBK	ABS	black		✓			On demand	✓
Skylonitrile® rABS25-12VDBK	ABS	black		✓			On demand	✓
Skylonitrile® rABS30-14GR-7012	ABS	grey		✓			On demand	✓
Skylonitrile® rABS25-12GR-7035	ABS	grey		✓			✓	✓
Skylonitrile® rABS25-16GR-7035	ABS	grey		✓			On demand	✓
Skylonitrile® rABS25-12WH-9002	ABS	white		✓			On demand	✓



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)	Sample material	CO ₂ Certificates
Skystyrene® rPS6-6BK	PS	black		✓			✓	✓
Skystyrene® rPS6-8BK	PS	black		✓			✓	✓
Skystyrene® rPS6-10BK	PS	black		✓			On demand	✓
Skystyrene® rPS6-10BK HD	PS	black		✓			On demand	✓
Skystyrene® rPS10-6BK	PS	black		✓			On demand	✓
Skystyrene® rPS10-8BK	PS	black		✓			On demand	✓
Skystyrene® rPS6-6GR 7035	PS	grey		✓			On demand	✓
Skystyrene® rPS6-8GR 7035	PS	grey		✓			On demand	✓
Skystyrene® rPS6-10GR 7035	PS	grey		✓			On demand	✓
Skystyrene® rPS6-6WH 9002	PS	white		✓			On demand	✓
Skystyrene® rPS6-8WH 9002	PS	white		✓			On demand	✓



Product	Polymer	Colours	Post-industrial	Post-consumer	Bio-based	Biodegradable (Industrial)		Sample material	CO ₂ Certificates
M-VERA® GP1015 (B0071)	Bio-Polyester	natural				✓		✓	On demand
M-VERA® GP1025 (B0147)	Bio-Polyester	natural				✓		✓	✓
M-VERA® GP1045 (B0217)	Bio-Polyester	natural					✓	✓	On demand
M-BIOBASE® PPC 035 nat (B0233) CI*	PP Copo	natural	Biomass-balanced polypropylene (PP). The raw material sources for PP are vegetable oil and fat waste that is produced during various processes, e.g. in the food industry, in the food industry.					On demand	✓
M-BIOBASE® PPH 120 nat (B0236) CI*	PP Homo	natural						On demand	✓
Other types of BIO-FED are available on request.									

*ISCC PLUS Certification



Certified quality

We aim to provide our customers with innovative products and service of the highest quality.

We hold the following certifications:

**DIN EN ISO
9001:2015**

Quality Management
System

**DIN EN ISO
14001:2015**

Environmental
Management System



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