BADICO®

PLASTIC COMPOUNDS

Tailor Made Compounds

Engineering plastics built to your recipe – as virgin material or with up to 70 % recycled content.

Your specification. Our compound.

PC/ABS · PC · ABS · PA 6 · PA 66 · PA 12 · ASA · SAN



WHAT WE OFFER

BADICO®

Two routes to the right compound



Tailor Made Prime Compounds

Virgin-based compounds developed to your specification – from proven base recipes to the most demanding projects.

PC/ABS · PC · ABS · PA 6 · PA 66 · PA 12 · ASA · SAN



Recycled Engineering Compounds

Replacing virgin material in key industrial applications – with 30 to 70 % post-industrial recycled content and measurably less CO_2.

R30 · R50 · R70

One contact. One specification. **Two options.**

BADICO®

Made to measure for your part

Every compound is developed in close partnership with you – from recipe to approval.

01

Tailor Made Approach

Polymer, filler and additives follow your part – not a catalogue.

02

Virgin as the base

Prime quality for applications where mechanics, appearance and process reliability leave no margin.

03

Customisation to the last detail

Colouring, glass fibre, flame retardancy with UL-listed grades, conductivity – combined as needed.



From first sample to series / Injection moulding & extrusion / Automotive · Electrical · Appliances · Industry

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Material meets industry · PC/ABS & PC

Compound	Automotive	Electrical	Household appliances	Industrial devices
PC/ABS	T65, T85	T85 GW850	T65, T85	T65, T85
PC/ABS Impact	T45 IMPACT SPECIAL, T45 IMPACT, T65 IMPACT, T85 IMPACT	–	–	–
PC/ABS FR	FR HT	T100 FR, T110 FR, T125 FR, FR HT	T110 FR, T125 FR	T110 FR, FR HT
PC/ABS T88 GF	GF10, GF13, GF17, GF20	–	–	GF17, GF20
PC	–	UG, F, OPL	UG, F	UG, F
PC FR	–	FR, FR GW, FR TRANSP	FR	FR, FR GW
PC FR GF	–	FR GF10, FR GF10 HF, FR GF20, FR GF20 HF	–	FR GF10, FR GF20
PC GF	–	GF5, GF10, GF15, GF20	–	–
PC/ASA	–	FR, FR F HF	T65, T85	–
PC/PBT	T65	–	T65	–

Selection of proven base grades – further grades and custom recipes on request. GF = glass fibre content in %, GB = glass beads in %, FR = flame retardant, GW = glow-wire tested.

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Material meets industry · ABS, ASA & PA

Compound	Automotive	Electrical	Household appliances	Industrial devices
ABS	UG	UG, F	UG, F, TRANSP	UG
ABS TR	MTR, TR	–	MTR, TR	–
ABS FR	–	FR UV, FR F, FR GW	–	FR
ABS GF	GF17	GF7, GF17	GF17, GF20	GF10, GF20, GF32
SAN	–	UG	UG, F	UG, GF35
ASA	UG, MTR, TR	UG, TR	UG, TR	–
PA/ABS	UG	–	–	–
PA 6 GF	GF15, GF30, GB15	GF15, GF30, GF50	GF15, GF30	GF15, GF30, GF35
PA 6 Special	P20	FR HF, FR HF V2	–	–
PA 6	B3S, B3K	B3S, B3K	B3S, B3K	B3S
PA 66 GF	GF15, GF30, GF35, GF50	GF15, GF30, GF35, GF50	GF30	GF15, GF30, GF35, GF50
PA 66 FR GF	–	FR GF25, FR GF25 PH	FR GF25, FR GF25 PH	FR GF25, FR GF25 PH
PA 66	A3W	A3W	A3W	A3W, MOS
PA 12	P20, P40	P0, P20, P40	–	P20, P40

Selection of proven base grades – further grades and custom recipes on request. GF = glass fibre content in %, GB = glass beads in %, FR = flame retardant, GW = glow-wire tested.

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Recycled content that works in series

Goal: replace virgin material in the main industrial applications – without compromising function.

Electrical industry
Housings, boxes, meter components

Automotive interior
Trims, armrests, glove boxes, air ducts

Household appliances
Household and electrical appliances

Garden equipment
Components for garden and power tools

R30

R30 – the first step
30 % recycled content. Better LCA, mechanical and aesthetic properties close to virgin – available in many colours.

R70

R70 – the big lever
70 % recycled content. Maximum CO_2 effect for technical inner parts where appearance comes second.

PIR = post-industrial recyclate, sourced from single-grade production scrap.

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ABS with recycled content

Grade	Recycled	Colours	Properties	Typical application
ABS F15 R30	30 % PIR	colours on demand	good flow, good impact; for household appliances, automotive and electrical parts	Lawn mower components
ABS F15 R70	70 % PIR	black, dark grey	not for aesthetic or structural parts	Junction boxes
ABS GF17 R30	30 % PIR	grey, black	17 % glass fibre reinforced	Loudspeaker frames
ABS GF17 R70	70 % PIR	black	17 % glass fibre reinforced; not for aesthetic or structural parts	Tool components (sanding pads)

Typical values. Suitability for your part is assessed application by application.

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PC/ABS with recycled content

Grade	Recycled	Colours	Properties	Typical application
PC/ABS T65 R30	30 % PIR	colours on demand	good impact, medium heat resistance, medium flow	Armrests, visible parts
PC/ABS T65 R70	70 % PIR	black	medium heat resistance, medium flow; not for aesthetic or structural parts	Armrest part for foaming
PC/ABS T85 R30	30 % PIR	colours on demand	good impact, high heat resistance, medium flow	Automotive components
PC/ABS T85 R70	70 % PIR	black	high heat resistance, medium flow; not for aesthetic or structural parts	Housings, boxes
PC/ABS FR105 R30	30 % PIR	colours on demand	V-0 at 1.6 mm, medium flow, heat resistance 105/110 °C	Electrical articles, meter components
PC/ABS FR100 R70	70 % PIR	black	V-0 at 1.6 mm, high flow, heat resistance 100/110 °C; not for aesthetic parts	Electrical articles, air vents
PC/ABS T45 HI R30	30 % PIR	under development	high impact, even at low temperatures	Cup holders (automotive)

Typical values. Suitability for your part is assessed application by application.

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PC with recycled content

Grade	Recycled	Colours	Properties	Typical application
PC UG18 R30	30 % PIR	colours on demand	good impact, medium flow	Visible electrical boxes
PC UG18 R70	70 % PIR	black, dark grey	medium flow; not for aesthetic or structural parts	Electrical inner components
PC UG18 GW960 R30	30 % PIR	colours on demand	V-0 at 3.2 mm, GWFI 960 °C at 2 mm, medium flow	Electrical components
PC FR GF10 R50	50 % PIR	colours on demand	10 % glass fibre reinforced, V-0 at 1.6 mm	Electricity meters
PC FR GF10 R70	70 % PIR	limited range of colours	10 % glass fibre reinforced, V-0 at 1.6 mm	Boiler components
PC GF10 R70	70 % PIR	dark colours on demand	10 % glass fibre reinforced	Housings

Typical values. Suitability for your part is assessed application by application.

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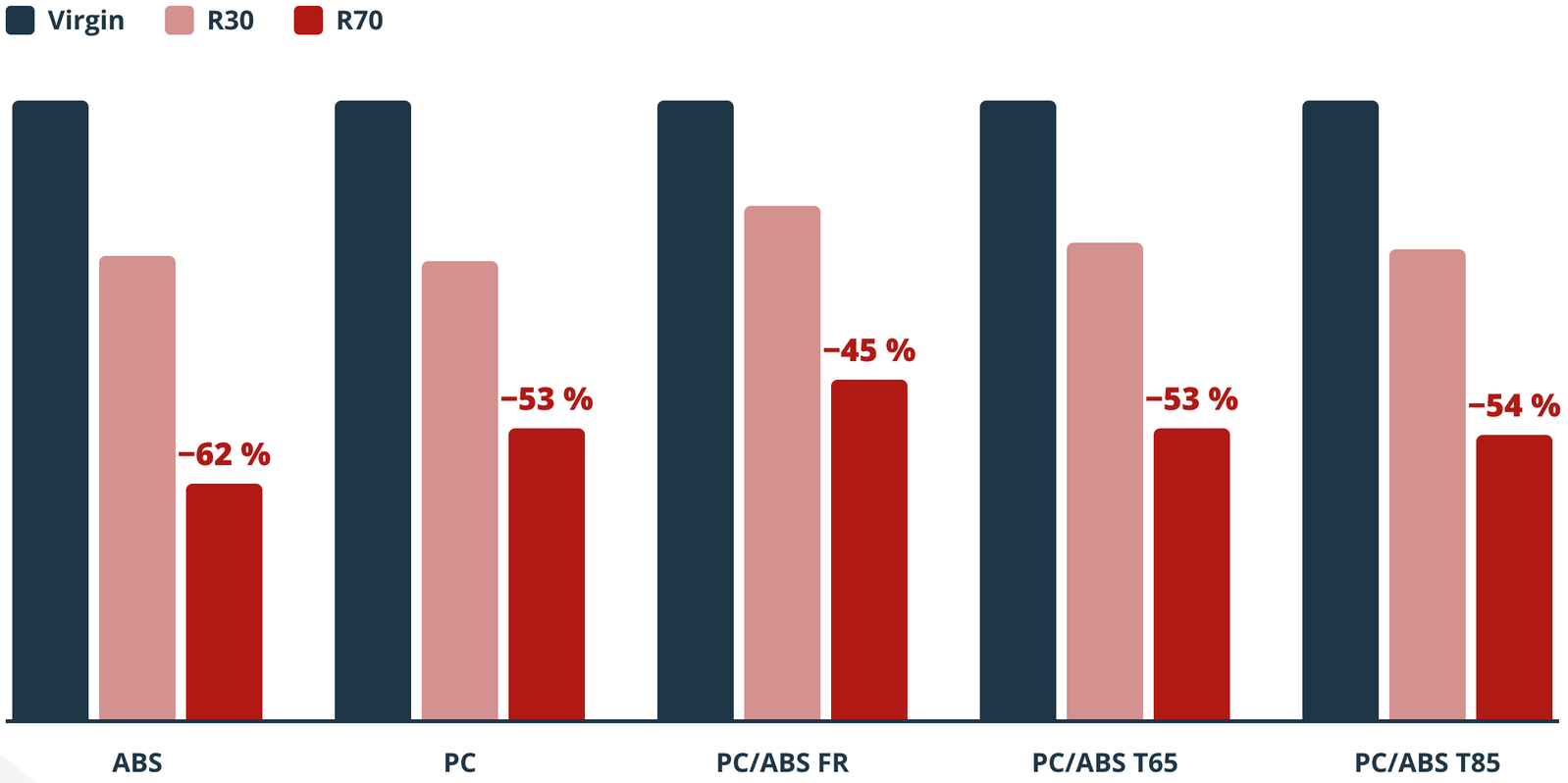
Less CO_2 per kilogram

Carbon footprint per kg of compound – virgin grade compared with R30 and R70



up to −62 %

CO_2 per kg with R70 compared to virgin

> The higher the recycled content, the bigger the lever – on the same polymer base.

Life cycle assessment based on producer data, indexed (virgin = 100). Percentages: reduction of R70 vs. virgin.

RECYCLED ENGINEERING COMPOUNDS

Recycled. Verified. Ready for series.

up to 70 %
recycled content

up to −62 %
CO_2 per kg vs. virgin

100 %
designed for recyclability

Circular economy that proves itself in the part.



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PC/ABS R30 at a glance

Grades	PC/ABS T65 R30 · PC/ABS T85 R30 · PC/ABS FR105 R30
Physical form	Granules
Compliance	REACH, RoHS, SVHC
Material	PC/ABS or PC/ASA – blend ratio set by your technical requirements, glass fibre and additives shown in the grade code
Applications	Automotive, electrical, household appliances, industrial applications

Eco concept
Developed against an equivalent virgin grade to significantly reduce the environmental footprint – and recyclable at end of life.

Circularity
Production scrap from processors flows back into the compound as raw material.

Raw materials
From selected suppliers that meet EU environmental standards.

Logistics
Raw materials preferably from nearby plants – less transport CO_2.

Packaging
100 % recyclable.

✓ **BADICO certified to ISO 9001 (quality) and ISO 14001 (environmental management)**

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What 1 kg of PC/ABS R30 saves

ENERGY · FUEL

18.6 MJ

at 30 % recycled content

→ **up to 62.2 MJ at 100 % recycled content**

ENERGY · FEEDSTOCK

10.5 MJ

at 30 % recycled content

→ **up to 35.0 MJ at 100 % recycled content**

WATER

5.5 kg

at 30 % recycled content

→ **up to 17.4 kg at 100 % recycled content**

min. 30 % recycled content

30 % waste reduction on plastic raw materials used

100 % recyclable packaging

Values based on producer data.

CONTACT

Your specification.
Our compound.

Send us polymer, requirement profile and volume requirements – we'll come back with a matching proposal.

1. **Send your requirements**
2. **Align grade & recipe**
3. **Delivery – from small batch to series**

All data are typical values and do not replace application-specific testing.

BADICO®

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Successful Together

