

TECHNICAL

RAKO / Cases

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Injection-moulde parts Small parts

At home in all

product ranges.

TECHNICAL PLASTIC PARTS

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Technical plastic parts

... are elements made of plastic which are incorporated or used within a technical mechanism. One simple example: the shroud for the porthole on a washing machine is a technical plastic part which is incorporated into the overall mechanism of a washing machine, and without this part it would not work.

There are technical plastic parts which are simple in structure and those with complicated, sophisticated structures. What is common to all of them is that they fit seamlessly into the overall technical apparatus.



Technical plastic parts – construction industry

In the construction industry, technical plastic parts are mostly used for electrical or plumbing installations. Wall sleeves for airing and ventilation or leaf filters are further examples of the use of technical plastic parts in building construction and civil engineering.



Technical plastic parts – electrical / solar industry

Besides housings and covers for electric appliances, technical plastic parts are used in the solar industry in particular. Popular examples are substructures for solar modules that can be extensively mounted on flat roofs without the need for additional tools.



Household appliances are a classic field for technical plastic parts. For example, dishwashers or washing machines consist of a large number of plastic parts that can sometimes feature very complicated structures.

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Technical plastic parts – transport technology

Seats are supposedly simple structures, but on closer inspection are individual, clever and sophisticated solutions.



Large parts

Technical plastic parts do not always have to have a complicated structure to satisfy a technical demand. Often the technical requirements, such as in regard to the appearance and the surface finish, are very high.



Airmould / gas injection technology

Technical plastic parts produced with gas injection technology offer many advantages

- a great deal of creative freedom in the design
- better hygienic properties
- free of shrink marks even in the thick-walled and ribbed area of the components
- no deformation, high stability
- better quality of the surface
- cost-effective production using simple tools and saving assembly costs
- environmentally-friendly production thanks to exhaust gas recycling

Example: construction industry



Example: electrical and solar sector

TECHNICAL PLASTIC PARTS

	Version	Material
Substructure for solar modules	On the FixFlat module pallet, solar modules are mounted using a clamping device. The whole structure is placed on flat roofs. Dimensions: 1400 x 800 mm Weight: up to 5.5 kg	PP, UV-stabilised
Connectors for solar modules	With these built-in connecting elements, the individual FixFlat module pallets are plugged tog- ether to form a polysurface. The installation does not require any tools.	PP, UV-stabilised
Mounting blocks for solar modules	This mounting system for solar modules is an alternative to the module pallet which is also sui- table for flat roofs. Dimensions: 1200 x 270 mm Weight: up to 3.2 kg	PP, UV-stabilised
Warning spheres	The warning spheres are placed on transmission lines as a war- ning system for air traffic. Dimension: Ø 600 mm	PP 6 GF, UV-stabilised
Display housings	The electronic display systems for precision balances are inserted in this plastic housing.	PT

Example: transport technology

	Version	Material
Shopping trolley with child seat	This type of trolley is manufactu- red in various sizes. Volume: 75 - 240 litres	PP, PA 6, PA 6 GF
Seat shell for trains and buses	The seat shell consists of various attachment parts made of plastic.	PA 6 GF
Seat cover for trains	Cover for the back of a seat on trains with folding table and shelf. Dimensions: 980 x 485 mm	PC / ABS blend complies with fire safety stan- dard DIN 5510.S

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Example: household appliances / apparatus engineering

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Pump housing	Consisting of two halves in which the device mechanics and elec- tronics are installed.	pp
Toilet cistern cover		PP-TV
Door for tumble dryer	Consists of various individual parts. Dimensions: 600 x 500 mm	PP-TV
Mounting base for household appliances	Washing machines, tumble driers and dishwashers are installed using these floor sockets. Dimensions: 600 x 500 mm	PP chalk

Example: large parts, storage technology

	Version	Material
Urinals	Bowl for an environmentally- friendly toilet system without consumption of water.	PC
Base board for concrete blocks	Burned concrete blocks are stored on this load carrier to cool down. The carrier pallet is made from WPC (wood plastic composite), a mixture of the renewable raw material wood and plastic. Dimensions: up to 1400 x 1000 mm Weight: up to 13 kg	60% WPC 30% PP 10% fibreglass
Eloor pap for IBC bulk	Large containers for liquids are	
rioor pan for IBC buik containers	Large containers for liquids are placed on the floor pan, which is supported by a metal framework. The overall construct can be handled on the floor pan. Dimensions: 1200 x 1000 mm Weight: approx. 12.5 kg	PE
Cleaning tank	for cooking grids	ABS
ECO pack reusable packaging	Frames for drawers are stored and transported in this high- precision reusable packaging. The containers can be nested into one another when empty. They are stacked using two pivoting stacking frames.	ABS / PAGF

TECHNICAL PLASTIC PARTS

		Version	Material
Airmould / gas injection technology			
	Attachments	Injection-moulded aluminium parts; for seats on public trans- port.	PA6 GF
	Corner element	for handles on shopping trolleys	PA6
Injection-moulded metal parts	Enclosing metal parts such as screws or bolts in tech- nical plastic components is a particular challenge.		
J. I	Oil filler funnels / cylinders	for pumps	PA 6 GF-MV / PP-GF
2.3	Push button	for toilet cisterns	ASA
	Pump housing		PP-GF
Small parts			
	Bolts	for the furniture industry	ABS / PA 6
ale . In a	Various small parts		