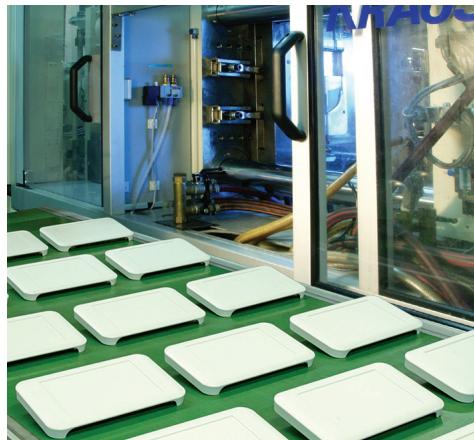


TOLERANCES

PRODUCTION-RELATED DIMENSIONAL VARIATIONS



GENERAL INFORMATION

The deviations from the nominal dimensions and the subsequent processing of our parts are generally dependent on the manufacturing or production processes used.

- DIN ISO 20457 applies for injection moulding, and the tolerance group TG 6 applies for our thermoplastics.
- DIN 12020-2 applies for the production of aluminium profiles.
- If the parts are mechanically processed, DIN ISO 2768m always applies.

INJECTION-MOULDED PLASTIC PARTS

Deviations from nominal dimension according to DIN ISO 20457 TG 6.

Tolerance-group	Nominal dimensional range																	
	over	1	3	6	10	18	30	50	80	120	180	250	315	400	500	630	800	
	up to	3	6	10	18	30	50	80	120	180	250	315	400	500	630	800	1000	
General tolerances																		
TG6	W	±0.07	±0.12	±0.18	±0.22	±0.26	±0.31	±0.37	±0.57	±0.80	±0.93	±1.05	±1.15	±1.25	±1.40	±1.60	±1.80	
	NW	±0.12	±0.18	±0.22	±0.26	±0.31	±0.37	±0.57	±0.80	±0.93	±1.05	±1.15	±1.25	±1.40	±1.60	±1.80	±2.10	

W – for dimensions that are tool-specific

NW – for dimensions that are not tool-specific

MACHINING, SILK-SCREEN / TAMPO PRINTING, SAWING, EMBOSSING, CUTTING, DIGITAL PRINTING

All dimensions < 30 mm to the reference edge of the case with a tolerance of ± 0.3 mm.

All other dimensions: unless otherwise specified against DIN ISO 2768m T1.

At the same time, the tolerances of the basic parts must be taken into account.

Linear measure	Nominal dim.		0.5 - 6 mm		6 - 30 mm		30 - 120 mm		120 - 400 mm		400 - 1000 mm	
	Tolerance		± 0.1 mm		± 0.2 mm		± 0.3 mm		± 0.5 mm		± 0.8 mm	
Angular measure	Nominal dim.		up to 10 mm		10 - 50 mm		50 - 120 mm		120 - 400 mm		> 400 mm	
	Tolerance		± 1°		± 0.5°		± 0.33°		± 0.16°		± 0.08°	
Radii	Nominal dim.		0.5 - 3 mm		3 - 6 mm		6 - 30 mm		30 - 120 mm		120 - 400 mm	
	Tolerance		± 0.2 mm		± 0.5 mm		± 1 mm		± 2 mm		± 4 mm	