

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 16742 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 16742 TG 6

Tolerance-group		Nominal dimensional range																
		over up to	1 3	3 6	6 10	10 18	18 30	30 50	50 80	80 120	120 180	180 250	250 315	315 400	400 500	500 630	630 800	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	±1,60	±2,20	±2,50	±2,80
	NW		±0,12	±0,18	±0,22	±0,26	±0,31	±0,37	±0,57	±0,80	±0,93	±1,05	±1,15	±1,60	±2,20	±2,50	±2,80	±3,10
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	$\pm 1^\circ$	$\pm 0.5^\circ$	$\pm 0.33^\circ$	$\pm 0.16^\circ$	$\pm 0.08^\circ$

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