

TOLERANCE TABLE

DIMENSION	MIMECRISA	EPMA	
3	±0,05	±0,05	Flatness 0.1 ± 0.3 (according to the size of the surface)
3 ± 6	±0,06	±0,06	
6 ± 9	±0,07	±0,075	
9 ± 12	±0,08	±0,075	Alignment and concentricity Measurement <15mm: 1% Measurement 15 ±30: 0.8% Measurement >30mm: 0.6%
12 ± 16	±0,10	±0,075	
16 ± 20	±0,12	±0,15	
20 ± 25	±0,15	±0,15	Perpendicularity ±0,50%
25 ± 30	±0,18	±0,15	
30 ± 50	±0,25	±0,5%	Wall thickness Minimum 0.5mm
≥ 50	±0,5%		

M.I.M. PART (desirable features)

Length:

<100 mm

Length/width ratio:

<5 (better tolerances)

Weight:

> 0.5 gr. - < 30 gr.

Range > 0.05 gr. - < 75 gr.

Optimum Wall Thickness:

> 1.0 mm - < 6 mm

Range > 0.5 - < 15mm

Batches:

> 10.000 Parts (Tool cost)

High Strength:

high density materials/ non connected porosity
(find table of materials enclosed)

Few critical tolerances into

±0,5% but following design rules

Complex shape:

takes the most from technology

Heat treatment:

almost all

Surface treatment:

any

EXAMPLES OF DESIGNING

Examples of designing for uniform and transition wall thickness are shown in diagrams below

