

# Standard Tolerance Guide Sheet

Provided for general guidance only, please contact us to confirm any specific requirements you may have.



## Rubber Moulding

Linear Dimensions (BS ISO 3302-1)

Nominal Dimensions		Class M1		Class M2		Class M3		Class M4
above	up to and including	F ±	C ±	F ±	C ±	F ±	C ±	F & C ±
0	4.0	0.08	0.10	0.10	0.15	0.25	0.40	0.50
4.0	6.3	0.10	0.12	0.15	0.20			
6.3	10.0	0.10	0.15	0.20	0.20	0.30	0.50	0.70
10.0	16.0	0.15	0.20	0.20	0.25	0.40	0.60	0.80
16.0	25.0	0.20	0.20	0.25	0.35	0.50	0.80	1.00
25.0	40.0	0.20	0.25	0.35	0.40	0.60	1.00	1.30
40.0	63.0	0.25	0.35	0.40	0.50	0.80	1.30	1.60
63.0	100.0	0.35	0.40	0.50	0.70	1.00	1.60	2.00
100.0	160.0	0.40	0.50	0.70	0.80	1.30	2.00	2.50
160.0	∞	0.3%	0.4%	0.5%	0.7%	0.8%	1.3%	1.5%

F = Fixed dimensions; dimensions created by features on the same part of the tool

C = Closure dimensions; dimensions that are created across two mating parts of a tool and therefore more prone to variation.

All values in millimetres unless otherwise stated

Hardness tolerance variation from nominal

Shore A	=	± 5°
IRHD	=	± 5°

## Extrusions

Cross-sectional dimensions (BS ISO 3302-1, E2)

Range	0 - 1.5	1.5 - 2.5	2.5 - 4.0	4.0 - 6.3	6.3 - 10	10 - 16	16 - 25	25 - 40	40 - 63	63 - 100
Tolerance ±	0.25	0.35	0.40	0.50	0.70	0.80	1.00	1.30	1.60	2.00

Range = Above - Up to and including. All values in millimetres unless otherwise stated

## Cutting & Sheet Material

Linear Dimensions

Punched parts:

0 - 200mm	=	± 0.20mm
> 200mm	=	± 0.50mm

Hand cut parts including hand cut strip:

0mm - 1000mm	=	± 1mm
> 1000mm	=	± 0.5%

Strip cut parts:

Width	=	± 0.50mm
Length		
0mm - 1000mm	=	± 1.00mm
> 1000mm	=	± 0.5%

Thickness

0mm - 50mm	=	± 0.25mm
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Hardness tolerance variation from nominal

Shore A	=	± 5°
IRHD	=	± 5°

## Machined Rubbers & Plastics

Linear Dimensions (DIN ISO 2768-1 m)

0 - 6mm	=	± 0.10mm
6 - 30mm	=	± 0.20mm
30 - 120mm	=	± 0.30mm
120 - 400mm	=	± 0.50mm
400 - 900mm	=	± 0.80mm

Hardness tolerance variation from nominal

Shore A	=	± 5°
IRHD	=	± 5°