TOLERANCES
technical rubber

During the production and processing of rubber, there are many factors that influence the final dimensions. These factors can span everything from the original nature of the rubber, the machining process, the proportions of the items and even the humidity and temperature during machining and storage. Therefore, there will always be a tolerance on each subject.
AAG's tolerances for end products depend on the production method, the following tables indicate the tolerances used. It requires the buyer to assess whether the specified product properties meet the requirements for the intended use and, if necessary, to test in their own application. AAG can not be held responsible for the buyer's operating, profit or other indirect loss.

Moulded items | ISO 3302-1:2014

Nominal dimension (mm)		*Class M1*	
From	To	F ±	C ±
0	4	0,08	0,10
4	6,3	0,10	0,12
6,3	10	0,10	0,15
10	16	0,15	0,20
16	25	0,20	0,20
25	40	0,20	0,25
40	63	0,25	0,35
63	100	0,35	0,40
100	160	0,40	0,50
160	-	0,3%	0,4%

Nominal dimension (mm)		*Class M2*	
From	To	F ±	C ±
0	4	0,10	0,15
4	6,3	0,15	0,20
6,3	10	0,20	0,20
10	16	0,20	0,25
16	25	0,25	0,35
25	40	0,35	0,40
40	63	0,40	0,50
63	100	0,50	0,70
100	160	0,70	0,80
160	-	0,5%	0,7%

Nominal dimension (mm)		*Class M3**	
From	To	F ±	C ±
0	4	0,25	0,40
4	6,3	0,25	0,40
6,3	10	0,30	0,50
10	16	0,40	0,60
16	25	0,50	0,80
25	40	0,60	1,00
40	63	0,80	1,30
63	100	1,00	1,60
100	160	1,30	2,00
160	-	0,8%	1,3%

*Unless otherwise agreed, the most commonly used standard is Class M3.

Extruded items | ISO 3302-1:2014

Nominal dimension (mm)		*Class E1*
From	To	±
0	1,5	0,15
1,5	2,5	0,20
2,5	4	0,25
4	6,3	0,35
6,3	10	0,40
10	16	0,50
16	25	0,70
25	40	0,80
40	63	1,00
63	100	1,30

Nominal dimension (mm)		*Class E2**
From	To	±
0	1,5	0,25
1,5	2,5	0,35
2,5	4	0,40
4	6,3	0,50
6,3	10	0,70
10	16	0,80
16	25	1,00
25	40	1,30
40	63	1,60
63	100	2,00

Nominal dimension (mm)		*Class E3**
From	To	±
0	1,5	0,40
1,5	2,5	0,50
2,5	4	0,70
4	6,3	0,80
6,3	10	1,00
10	16	1,30
16	25	1,60
25	40	2,00
40	63	2,50
63	100	3,20

* Unless otherwise agreed, E2 is used for extruded solid rubber items, while E3 is the most widely used standard for cellular rubber.

Punched and cut items | DIN 7715-5:1979

Nominal dimension (mm)		*Class P1*
From	To	±
0	1,6	0,20
1,6	4	0,20
4	6,3	0,20
6,3	10	0,30
10	25	0,30
25	40	0,40
40	63	0,50
63	100	0,60
100	160	0,80
160	250	1,00
250	400	1,60
400	-	0,5%

Nominal dimension (mm)		*Class P2**
From	To	±
0	1,6	0,20
1,6	4	0,30
4	6,3	0,40
6,3	10	0,50
10	25	0,60
25	40	0,80
40	63	1,00
63	100	1,20
100	160	1,40
160	250	1,60
250	400	2,50
400	-	0,8%

Nominal dimension (mm)		*Class P3*
From	To	±
0	1,6	0,40
1,6	4	0,40
4	6,3	0,50
6,3	10	0,60
10	25	0,80
25	40	1,00
40	63	1,50
63	100	2,00
100	160	2,50
160	250	3,00
250	400	5,00
400	-	1,5%

*Unless otherwise agreed, the most commonly used standard is Class P2.

TOLERANCES
technical rubber

Water cut items | ISO 2768-1:1993

Nominal dimension (mm)		*Class F*
From	To	±
0,5	3	0,05
3	6	0,05
6	30	0,10
30	120	0,15
120	400	0,20
400	1000	0,30
1000	2000	0,50
2000	4000	-

Nominal dimension (mm)		*Class M*
From	To	±
0,5	3	0,10
3	6	0,10
6	30	0,20
30	120	0,30
120	400	0,50
400	1000	0,80
1000	2000	1,20
2000	4000	2,00

Nominal dimension (mm)		*Class C**
From	To	±
0,5	3	0,20
3	6	0,30
6	30	0,50
30	120	0,80
120	400	1,20
400	1000	2,00
1000	2000	3,00
2000	4000	4,00

Nominal dimension (mm)		*Class V*
From	To	±
0,5	3	-
3	6	0,50
6	30	1,00
30	120	1,50
120	400	2,50
400	1000	4,00
1000	2000	6,00
2000	4000	8,00

*Unless otherwise agreed, the most commonly used standard is Class C.
In general, reservations are made for tolerances, as the hardness and thickness of the material may influence the tolerance level.

Solid rubber Plates

DIN 7715-5:1979 P2/

ISO 3302-1:2014

Nominal thickness(mm)	±
0,5	0,20
1,0	0,20
1,5	0,20
2,0	0,30
2,5	0,30
3,0	0,30
4,0	0,30
5,0	0,40
6,0	0,40
8,0	0,70
10,0	0,70
12,0	0,80
15,0	0,80
20,0	1,00
25,0	1,25
30,0	1,50
35,0	1,75
40,0	2,00
45,0	2,25
50,0	2,50

Width	± 2%
Length	± 2%

Cellular rubber Plates

Nominal thickness (mm)		
From	To	±
2	5	0,50
5	-	10%

Width	± 3%
Length	± 3%

Moos rubber Plates

DIN 7715-5:1979 P3

Nominal thickness (mm)		
From	To	±
0	3	0,40
3	6	0,50
6	10	0,60
10	18	0,80
18	30	1,00
30	50	1,50
50	80	2,00
80	120	2,50
120	180	3,00
180	250	4,00
250	315	5,00
315	400	6,00
400	500	7,00
500	-	1,5%