

Table 3

Standard A2 precision dimensional tolerance table - moulded rubber products

Size	Millimeters	Fixed	Closure
Above	Inc		
0	10	± .16	± .20
10	16	0.2	0.25
16	25	0.25	0.32
25	40	0.32	0.4
40	63	0.4	0.5
63	100	0.5	0.63
100	160	0.63	0.8
160 and Over multiply by		0.004	0.005

Table 13

Tolerances for outside (OD) diameter, inside (ID) diameters, wall thickness, width, height and general cross sectional dimensions or extrusions.

Class		1 High Precision	2 Precision	3 Commercial
Drawing Designation		E1	E2	E3
Length (in Millimeters)				
Above	Up to			
0	1.5	± 0.15	± 0.25	± 0.40
1.5	2.5	0.2	0.35	0.5
2.5	4	0.25	0.4	0.7
4	6.3	0.35	0.5	0.8
6.3	10	0.4	0.7	1
10	16	0.5	0.8	1.3
16	25	0.7	1	1.6
25	40	0.8	1.3	2
40	63	1	1.6	2.5
63	100	1.3	2	3.2

Table 16

Cut length tolerance table for unspliced extrusions

Class		1 Precision	2 Commercial	3 Non-Critical
Drawing Designation		L1	L2	L3
Length (in Millimeters)				
Above	Up to			
0	40	± 0.7	± 1.0	± 1.6
40	63	0.8	1.3	2
63	100	1	1.6	2.5
100	160	1.3	2	3.2
160	250	1.6	2.5	4
250	400	2	3.2	5
400	630	2.5	4	6.3
630	1000	3.2	5	10
1000	1600	4	6.3	12.5
1600	2500	5	10	16
2500	4000	6.3	12.5	20
4000		0.16%	0.32%	.50%

Table 36

Tolerances on Cross-Sectional dimensions of irregular and cored shapes of extruded, expanded, closed-cellular rubber. Class 1 tolerances in the table below are recommended only for high volume, tight products for automotive applications.

Cross Section

Class		1*	2	3
Drawing Designation		BEC 1	BEC 2	BEC 3
Dimensions Millimeters		Tolerances		
Above	Included			
0	6.3	± 0.4	± 0.5	± 0.63
6.3	12.5	0.63	1	1.25
12.5	25	1.25	2	2.5
25	40	2	3.2	4
40.0 & Over mult.by		0.06	0.08	0.1

* Class 1 tolerances should not be applied to the softer grades of material - below 63 kPa (9 psi) compression deflection.

Table 37

Tolerances on Cross-Sectional dimensions of cord, rectangular or other regular shapes of extruded, expanded, closed-cellular rubber.

Cross Sectional Dimensions (width, thickness or diameter)

Class		1	2	3
Drawing Designation		BER 1	BER 2	BER 3
Dimensions Millimeters		Tolerance		
Above	Included			
3.2	12.5	± 0.8	± 0.8	± 1.0
12.5	25	1.25	1.25	2
25	50	1.6	2	4
50	80	2.5	3.2	4
80.0 and over mult. by		0.06	0.08	0.1

Table 38

Tolerances on Cut lengths of all extruded, expanded, closed-cellular rubber products.

Class		1*	2	3
Drawing Designation		BEL 1	BEL 2	BEL 3
Dimensions Millimeters		Tolerance		
Above	Included			
0	80	±1.6	±1.6	±3.2
80	160	3.2	3.2	6.3
160	315	6.3	6.3	12.5
315	630**	Mult. By .02	12.5	25
630	1250**	Mult. By .02	25	50
1250 and over multiply by		0.02	0.03	0.04

*Class 1 tolerances should not be applied to the softer grades of material - below 63 kPa (9psi) compression deflection.

** Accurate measurement of long lengths is difficult because these materials stretch or compress easily. Where close tolerances are required on long lengths, a specific technique of measurement should be agreed upon between purchaser and manufacturer.