

RMA Dimensional Tolerances For Elastomeric Parts

"A2" Precision Drawing Designation Dimensional Tolerance Table for Molded Rubber Products					
Size (Millimeters)			Size (Inches)		
Above - Included	Fixed	Closure	Above - Included	Fixed	Closure
0 - 10	+/- .16	+/- .20	0 - .40	+/- .006	+/- .008
10 - 16	.20	.25	.40 - .63	.008	.010
16 - 25	.25	.32	.63 - 1.00	.010	.013
25 - 40	.32	.40	1.00 - 1.60	.013	.016
40 - 63	.40	.50	1.60 - 2.50	.016	.020
63 - 100	.50	.63	2.50 - 4.00	.020	.025
100 - 160	.63	.80	4.00 - 6.30	.025	.032
160 & over	X .004	x .005	6.30 & over	X .004	X .005

"A3" Commercial Drawing Designation Dimensional Tolerance Table for Molded Rubber Products					
Size (Millimeters)			Size (Inches)		
Above - Included	Fixed	Closure	Above - Included	Fixed	Closure
0 - 10	+/- .20	+/- .32	0 - .40	+/- .008	+/- .013
10 - 16	.25	.40	.40 - .63	.010	.016
16 - 25	.32	.50	.63 - 1.00	.013	.020
25 - 40	.40	.63	1.00 - 1.60	.016	.025
40 - 63	.50	.80	1.60 - 2.50	.020	.032
63 - 100	.63	1.00	2.50 - 4.00	.025	.040
100 - 160	.80	1.25	4.00 - 6.30	.032	.050
160 & over	X .005	x .008	6.30 & over	X .005	X .008

When applying tolerances, keep the following rules in mind:

- Consider using the maximum possible tolerance on your product.
- Regarding "A2" tolerances and tighter, it is highly advisable to predetermine and agree upon a common method of measurement to reduce repeatability errors and rejected shipments.
- It is often practical and wise to have a prototype cavity machined to evaluate the dimensional accuracy of the part you wish to manufacture. A much superior job of "dialing in" the desired final result can be accomplished using this method.

Cross-Sectional View of Rubber Mold

