



VEDOVELL Extruded Rubber

The use of extruded seals is extremely diverse. You will find extrusions in many types of manufacturing processes for a variety of purposes. Applications include, but are not limited to: door and window seals in the architectural environment and automotive, appliance and aircraft industries; bearing seals; bumpers; heater gaskets; radiator overflow tubing; vacuum cleaner belts; ladder foot grips, and cushions on bars or handles. The applications are endless and expanding rapidly with innovative engineering of extrudable materials.

Materials which can be extruded include dense and sponge rubber from a variety of compounds to meet your specific environment and application. These compounds include Nitrile, EPDM, Natural rubber, Neoprene, Viton®, Urethane, Silicone and many others. Whether your application requires a long or short run, Vedovell will service your needs with the appropriate compound.

Extrusions can be diversified for use by many secondary operations such as cut lengths, vulcanized to be endless, and formed and notched to allow a variety of shapes and sizes of products.

Most extrusions are custom profiles which are tooled to meet your blueprint requirements. This is an extremely competitive method of manufacturing due to reasonable tooling costs. There are also standard cord (rod), tubing and channels available.

The tolerance tables in the following pages have been developed by the Rubber Manufacturers Association to assist in your design work.

Table 12. Summary of RMA Drawing Designations Extruded Rubber Products				
RMA Class	Dimensional Tolerance* Table 13	Cut Length Tolerance* Table 16	Spliced Length Tolerance* Table 18	Mandrel Cured* Table 20
1	E1	L1	S1	EN1
2	E2	L2	S2	EN2
3	E3	L3	S3	EN3
4	-	-	-	-



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Table 13 - Standard Cross-Sectional Tolerance				
RMA Class		1 Precision	2 Commercial	3 Non-Critical
Drawing Designation		E1	E2	E3
Dimensions (in Millimeters)				
Above	Up to			
0.0	1.5	±0.15	±0.25	±0.40
1.5	2.5	0.20	0.35	0.50
2.5	4.0	0.25	0.40	0.70
4.0	6.3	0.35	0.50	0.80
6.3	10	0.40	0.70	1.00
10	16	0.50	0.80	1.30
16	25	0.70	1.00	1.60
25	40	0.80	1.30	2.00
40	63	1.00	1.60	2.50
63	100	1.30	2.00	3.20
RMA Class		1 Precision	2 Commercial	3 Non-Critical
Drawing Designation		E1	E2	E3
Dimensions (in Inches)				
Above	Up to			
0	0.06	±0.006	±0.010	±0.015
0.06	0.10	0.008	0.014	0.020
0.10	0.16	0.010	0.016	0.027
0.16	0.25	0.014	0.020	0.031
0.25	0.39	0.016	0.027	0.039
0.39	0.63	0.020	0.031	0.051
0.63	0.98	0.027	0.039	0.063
0.98	1.57	0.031	0.051	0.079
1.57	2.48	0.039	0.063	0.098
2.48	3.94	0.051	0.079	0.126



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Table 16 - Cut Length Tolerance for Un-spliced Extrusion				
RMA 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	2.0
63	100	1.0	1.6	2.5
100	160	1.3	2.0	3.2
160	250	1.6	2.5	4.0
250	400	2.0	3.2	5.0
400	630	2.5	4.0	6.3
630	1000	3.2	5.0	10.0
1000	1600	4.0	6.3	12.5
1600	2500	5.0	10.0	16.0
2500	4000	6.3	12.5	20.0
4000		0.16%	0.32%	0.50%
Length (in Inches)				
Above	Up to			
0.0	1.6	±0.03	±0.04	±0.06
1.6	2.5	0.03	0.05	0.08
2.5	4.0	0.04	0.06	0.10
4.0	6.3	0.05	0.08	0.13
6.3	10.0	0.06	0.10	0.16
10.0	16.0	0.08	0.13	0.20
16.0	25.0	0.10	0.16	0.25
25.0	40.0	0.13	0.20	0.40
40.0	63.0	0.16	0.25	0.50
63.0	100.0	0.20	0.40	0.63
100.0	160.0	0.25	0.50	0.80
160.0		0.16%	0.32%	0.50%



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Table 18 - Spliced Length Tolerances				
RMA Class		1 Precision	2 Commercial	3 Non-Critical
Drawing Designation		S1	S2	S3
Millimeters				
Above	Up to			
0	250	±3.2	±6.3	±7.1
250	400	4.0	7.1	8.0
400	630	5.0	8.0	9.0
630	1000	6.3	9.0	10.0
1000	1600	8.0	10.0	11.2
1600	2500	10.0	11.2	12.3
2500	over	12.5	12.5	16.0
Inches				
Above	Up to			
0	10	±0.13	±0.25	±0.28
10	16	0.16	0.28	0.32
16	25	0.20	0.32	0.36
25	40	0.25	0.36	0.40
40	63	0.32	0.40	0.45
63	100	0.40	0.45	0.50
100 over		0.50	0.50	0.53



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Table 20 - Tolerances on Internal Dimensions of Mandrel-Supported Extrusions				
RMA Class		1	2	3
Drawing Designation		Precision	Commercial	Non-Critical
Nominal Dimensions (in Millimeters)		EN1	EN2	EN3
Above	Up to			
0	4	±0.20	±0.20	±0.35
4	6.3	0.20	0.25	0.40
6.3	10	0.25	0.35	0.50
10	16	0.35	0.40	0.70
16	25	0.40	0.50	0.80
25	40	0.50	0.70	1.00
40	63	0.70	0.80	1.30
63	100	0.80	1.00	1.60
100	160	1.00	1.30	2.00
160		0.6%	0.8%	1.2%
Nominal Dimensions (in Inches)				
Above	Up to			
0	0.16	±0.008	±0.008	±0.014
0.16	0.25	0.008	0.010	0.016
0.25	0.40	0.010	0.014	0.020
0.40	0.63	0.014	0.016	0.028
0.63	1.00	0.016	0.020	0.032
1.00	1.60	0.020	0.028	0.040
1.60	2.50	0.028	0.032	0.051
2.50	4.00	0.032	0.040	0.063
4.00	6.30	0.040	0.051	0.079
6.30		0.6%	0.8%	1.2%

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