MODUS™

Abbreviated Tolerance Tables

Dense Cross-Section Organic/ Silicone Class 2 Precision

Standards For Cross-Sectional Tolerance Table

RMA CLASS		1	2	3
DRAWING DESIGNATION DIMENSIONS		HIGH PRECISION E1	PRECISION E2	COMMERCIAL E3
ABOVE	UP TO	(MILLIMETERS)		
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
ABOVE	UP TO	(INCHES)		
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

Note: Tolerances On Dimensions To The Left 100mm (3.94 In.) Should Be Agreed Upon By Supplier And User. General Cross-Sectional Dimensions Below 1mm (0.04 In.) Are Impractical. In General, Softer Materials And Those Requiring A Post-Cure Need Greater Tolerances.

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Abbreviated Tolerance Tables

Dense Cut Length L2 Commercial

Cut Length Tolerance Tables For Unspliced Extrusion

RMA CLASS		1	2	3
DRAWING DESIGNATION LENGTH		PRECISION L1	COMMERCIAL L2	NON-CRITICAL L3
ABOVE	UP TO	(MILLIMETERS)		
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%
ABOVE	UP TO	(INCHES)		
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%

Note: Special Consideration Of Tolerances Will Have To Be Given To Both Extremely Soft And High Tensile Stocks.

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Abbreviated Tolerance Tables

Sponge Cross Section Organic/Silicone #1, BEC 1

Tolerances On Cross-Sectional Dimensions Of Irregular And Cored Shapes Of Extruded, Expanded, Closed-Cellular Rubber. Class 1 Tolerances In The Table To The Right Are Recommended Only For High Volume, Tight Products Automotive Applications.

RMA CLASS		1*	2	3
DRAWING DESIGNATION		TOLERANCE		
		BEC1	BEC2	BEC3
ABOVE	UP TO	(MILLIMETERS)		
0	6.3	± 0.4	± 0.5	± 0.63
6.3	12.5	0.63	1.0	1.25
12.5	25.0	1.25	2.0	2.5
25.0	40.0	2.0	3.2	4.0
40.0 & over multiply by ▶		0.06	0.08	0.10
ABOVE	UP TO	(INCHES)		
0	.25	± 0.016	± 0.020	± 0.025
.25	.50	0.025	0.040	.050
.50	1.0	0.050	0.080	.100
1.0	1.6	0.080	.125	.160
1.6 & over multiply by ▶		0.060	0.080	0.100

*Class 1 Tolerances Should Not Be Applied To Softer Grades Of Material – Below 63 KPa (9 Psi) Compression Deflection.

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Abbreviated Tolerance Tables

Cut Length #1, BEL 1

Tolerances On Cut Lengths Of All Extruded, Expanded, Closed-Cellular Rubber Products.

RMA CLASS		1*	2	3
DRAWING DESIGNATION		TOLERANCE		
		BEL1	BEL2	BEL3
ABOVE	UP TO	(MILLIMETERS)		
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**	multiply by .02	12.5	25.0
630	1250**	multiply by .02	25.0	50.0
1250 & over multiply by ▶		0.02	0.03	0.040
ABOVE	UP TO	(INCHES)		
0	3.15	± .063	± .063	± .125
3.15	6.3	.125	.125	.250
6.3	12.5	.250	.250	1.000
12.5	25**	multiply by .02	1.000	2.000
25	50**	multiply by .02	0.030	0.040
50 & over multiply by ▶		0.02		

* Class 1 tolerances should not be applied to the softer grades of materials–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.

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