

RMA Tolerances - Rubber Extrusions

Standard based on Rubber Manufacturers Association (RMA) recommendations.

Table 13 - Section (Profile) Tolerances | Classes E1/E2/E3

Dimension range (mm)	Range (in)	Tolerance E1 ± (mm)	Tolerance E1 ± (in)	Tolerance E2 ± (mm)	Tolerance E2 ± (in)	Tolerance E3 ± (mm)	Tolerance E3 ± (in)
0-1.5	0.000"-0.060"	±0.15	±0.006"	±0.25	±0.010"	±0.40	±0.015"
1.5-2.5	0.060"-0.100"	±0.20	±0.008"	±0.35	±0.014"	±0.50	±0.020"
2.5-4.0	0.100"-0.160"	±0.25	±0.010"	±0.40	±0.016"	±0.70	±0.027"
4.0-6.3	0.160"-0.250"	±0.35	±0.014"	±0.50	±0.020"	±0.80	±0.031"
6.3-10	0.250"-0.390"	±0.40	±0.016"	±0.70	±0.027"	±1.00	±0.039"
10-16	0.390"-0.630"	±0.50	±0.020"	±0.80	±0.031"	±1.30	±0.051"
16-25	0.630"-0.980"	±0.70	±0.027"	±1.00	±0.039"	±1.60	±0.063"
25-40	0.980"-1.570"	±0.80	±0.031"	±1.30	±0.051"	±2.00	±0.079"
40-63	1.570"-2.480"	±1.00	±0.039"	±1.60	±0.063"	±2.50	±0.098"
63-100	2.480"-3.940"	±1.30	±0.051"	±2.00	±0.079"	±3.20	±0.126"

Table 20 - Internal Dimension Tolerances (mandrel extrusions) | EN1/EN2/EN3

Dimension range (mm)	Range (in)	Tolerance EN1 ± (mm)	Tolerance EN1 ± (in)	Tolerance EN2 ± (mm)	Tolerance EN2 ± (in)	Tolerance EN3 ± (mm)	Tolerance EN3 ± (in)
0-4	0.000"-0.160"	±0.20	±0.008"	±0.20	±0.008"	±0.35	±0.014"
4-6.3	0.160"-0.250"	±0.20	±0.008"	±0.25	±0.010"	±0.40	±0.016"
6.3-10	0.250"-0.400"	±0.25	±0.010"	±0.35	±0.014"	±0.50	±0.020"
10-16	0.400"-0.630"	±0.35	±0.014"	±0.40	±0.016"	±0.70	±0.028"
16-25	0.630"-1.000"	±0.40	±0.016"	±0.50	±0.020"	±0.80	±0.032"
25-40	1.000"-1.600"	±0.50	±0.020"	±0.70	±0.028"	±1.00	±0.040"
40-63	1.600"-2.500"	±0.70	±0.028"	±0.80	±0.032"	±1.30	±0.051"
63-100	2.500"-4.000"	±0.80	±0.032"	±1.00	±0.040"	±1.60	±0.063"
100-160	4.000"-6.300"	±1.00	±0.040"	±1.30	±0.051"	±2.00	±0.079"
160+	6.30"+	±0.6%	±0.6%	±0.8%	±0.8%	±1.2%	±1.2%

Table 16 - Length Tolerances (unspliced extrusion) | L1/L2/L3

Length (mm)	Length (in)	Tolerance L1 ± (mm)	Tolerance L1 ± (in)	Tolerance L2 ± (mm)	Tolerance L2 ± (in)	Tolerance L3 ± (mm)	Tolerance L3 ± (in)
0-40	0.0"-1.6"	±0.70	±0.03"	±1.00	±0.04"	±1.60	±0.06"
40-63	1.6"-2.5"	±0.80	±0.03"	±1.30	±0.05"	±2.00	±0.08"
63-100	2.5"-4.0"	±1.00	±0.04"	±1.60	±0.06"	±2.50	±0.10"
100-160	4.0"-6.3"	±1.30	±0.05"	±2.00	±0.08"	±3.20	±0.13"
160-250	6.3"-10.0"	±1.60	±0.06"	±2.50	±0.10"	±4.00	±0.16"
250-400	10.0"-16.0"	±2.00	±0.08"	±3.20	±0.13"	±5.00	±0.20"
400-630	16.0"-25.0"	±2.50	±0.10"	±4.00	±0.16"	±6.30	±0.25"
630-1000	25.0"-40.0"	±3.20	±0.13"	±5.00	±0.20"	±10.00	±0.40"
1000-1600	40.0"-63.0"	±4.00	±0.16"	±6.30	±0.25"	±12.50	±0.50"
1600-2500	63.0"-100.0"	±5.00	±0.20"	±10.00	±0.40"	±16.00	±0.63"
2500-4000	100.0"-160.0"	±6.30	±0.25"	±12.50	±0.50"	±20.00	±0.80"
4000+	160.0" +	±0.16%	±0.16%	±0.32%	±0.32%	±0.50%	±0.50%

Table 18 - Length Tolerances (spliced extrusion) | S1/S2/S3

Length (mm)	Length (in)	Tolerance S1 ± (mm)	Tolerance S1 ± (in)	Tolerance S2 ± (mm)	Tolerance S2 ± (in)	Tolerance S3 ± (mm)	Tolerance S3 ± (in)
0-250	0"-10"	±3.20	±0.13"	±6.30	±0.25"	±7.10	±0.28"
250-400	10"-16"	±4.00	±0.16"	±7.10	±0.28"	±8.00	±0.32"
400-630	16"-25"	±5.00	±0.20"	±8.00	±0.32"	±9.00	±0.36"
630-1000	25"-40"	±6.30	±0.25"	±9.00	±0.36"	±10.00	±0.40"
1000-1600	40"-63"	±8.00	±0.32"	±10.00	±0.40"	±11.20	±0.45"
1600-2500	63"-100"	±10.00	±0.40"	±11.20	±0.45"	±12.30	±0.50"
2500+	100" +	±12.50	±0.50"	±12.50	±0.50"	±16.00	±0.53"

Notes: condition at ambient temperature before measuring; for critical requirements, validate with engineering. Beyond the indicated ranges (e.g., >100 mm in section), tolerances to be agreed between supplier and user.