



Custom Molded Rubber - Die Cutting - Gaskets - Thermal Management
Form In Place - Vibration Isolators - EMI Shielding - Extrusion

Quotation

Western Rubber & Supply Inc.

1575 Greenville Rd.
Livermore, CA 94550
Phone: 925-960-8700, Fax: 925-960-8720
www.westernrubber.com
sales@westernrubber.com

Customer: MBARI

Attn: MARK CHAFFEY
7700 SANDHOLDT ROAD
MOSS LANDING CA 95039

Reference:
Opportunity #6493

Customer No.:
MBARI1

Salesperson:
Louise Deak

Email:
lhdeak@westernrubber.com

Quote Date:
08-14-2015

Item No.	Description	Quantity	Unit Price	Unit of Measure	Extended Price
Quote No: 5851	11021186-05-B-DWG REV B	25	32.35	EA	808.75
		50	23.72	EA	1,186.00
		100	19.85	EA	1,985.00
	NI-NRU-UCHN Non-Recurring Setup Cost				260.00
	Exceptions / Notes: Material: 0.25" Thick, Weather-Resistant Neoprene Foam - Black Tolerance: WRS Standard Lead Time: 2-3 weeks, ARO. MOQ: 25 pcs Please sent .dxf file at time of order placement.				

Terms & Conditions:

This quote is valid for 15 days. Western Rubber & Supply Inc., referred to as WRS, assumes no responsibility for the decision made by the customer to use materials or parts sold by, or recommended by WRS. WRS assumes no responsibility for production loss of Customer supplied material as we can not predict consequences of processing unknown materials. Customer supplied materials and value added products are expected to be received clean and contamination free. WRS may apply a surcharge for cleaning if it is necessary to our production process. Please refer to www.westernrubber.com/company/terms-conditions/ for a complete description of the WRS terms and conditions.

Quote No: 5855					
	11021186-09-A	25	23.93	EA	598.25
		50	16.14	EA	807.00
		100	12.69	EA	1,269.00
	NI-NRU-UCHN Non-Recurring Setup Cost				260.00
Exceptions / Notes: Material: 0.125" Thick, Weather-Resistant Neoprene Foam - Black Tolerance: WRS Standard Lead Time: 2-3 weeks, ARO. MOQ: 25 pcs Please sent .dxf file at time of order placement.					

Terms & Conditions:

This quote is valid for 15 days. Western Rubber & Supply Inc., referred to as WRS, assumes no responsibility for the decision made by the customer to use materials or parts sold by, or recommended by WRS. WRS assumes no responsibility for production loss of Customer supplied material as we can not predict consequences of processing unknown materials. Customer supplied materials and value added products are expected to be received clean and contamination free. WRS may apply a surcharge for cleaning if it is necessary to our production process. Please refer to www.westenrubber.com/company/terms-conditions/ for a complete description of the WRS terms and conditions.



Western Rubber & Supply, Inc.

Abbreviated Tolerance Tables

“WRS Commercial” Molded Rubber Tolerance Table

Dimensional Tolerance Table for Molded Rubber Products

Drawing Designation “A3” Commercial

Size (Millimeters)	Fixed	Closure	Size (Inches)	Fixed	Closure
Above - Including			Above - Including		
0 - 10	±0.20	±0.32	0 - 0.40	±0.008	±0.013
10 - 16	0.25	0.40	0.40 - 0.63	0.010	0.016
16 - 25	0.32	0.50	0.63 - 1.00	0.013	0.020
25 - 40	0.40	0.63	1.00 - 1.60	0.016	0.025
40 - 63	0.50	0.80	1.60 - 2.50	0.020	0.032
63-100	0.63	1.00	2.50 - 4.00	0.025	0.040
100 - 160	0.80	1.25	4.00 - 6.30	0.032	0.050
160 - & over			6.30 - & over		
multiply by	0.005	0.008	multiply by	0.004	0.008

(source: RMA Handbook for Molded, Extruded Lathe Cut and Cellular Products, 5th ed . 1992)

“WRS Standard” Length and Width Die Cut, Water Jet, CNC Knife Tolerances

Material Type RMA Drawing Designation Inches	Film BL1 Tolerance	Solid or Dense BL2 Tolerance	Sponge or Foam BL3 Tolerance
For thicknesses up to .25”*			
under 1.0”	+/- .010”	+/- .015”	+/- .025”
1.0” to 6.3”	.015”	.025”	.032”
over 6.3” multiply by	0.004”	0.010	0.0063
For thicknesses from .25” to .50”*			
under 1.0”	N/A	+/- .030”	+/- .040”
1.0” to 6.3”		.040”	.050”
over 6.3” multiply by		0.005	0.0063
For thickness over .50”*			
under 1.0”	N/A	N/A	+/- .050”
1.0” to 6.3”			.070”
over 6.3” multiply by			0.010

* Separate schedules of length and width tolerances are listed for different thickness of these materials because of the "dish" effect in die-cutting. This is more noticeable as the thickness increases. The "dish" effect is a concavity of die-cut edges (due to the squeezing of the material by the pressure of the cutting die).

The length or width on the top and bottom surfaces is slightly greater than the length or width at the center.

WRS Thickness Tolerance Table for Dense Rubber

Tolerances for the thickness of Sheet Rubber and Diaphragm Sheet

NOMINAL THICKNESS (in)		TOL. (in)	NOMINAL THICKNESS (in)		TOL.(in)
FRACTIONS	DECIMALS	+/-	FRACTIONS	DECIMALS	+/-
Under 1/32	Under 0.031	0.010	3/8 to but not including 9/16	0.375 to 0.562	0.047
1/32 to but not including 1/16	0.031 to 0.062	0.012	9/16 to but not including 3/4	0.562 to 0.750	0.062
1/16 to but not including 1/8	0.062 to 0.125	0.016	3/4 to but not including 1	0.750 to 1.000	0.094
1/8 to but not including 3/16	0.125 to 0.187	0.020	1 and over	1.000 and over	10%
3/16 to but not including 3/8	0.187 to 0.375	0.031			

(source: RMA Sheet Rubber Handbook, 3rd ed . 1980)