



## Neoprene “Diaphragm” Rubber

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|-----------------|---|
| Product Code:   | Style 6125  |
| Description:    | 60 Duro Neoprene Rubber Sheet   |
| Specifications: | Neoprene (CR) or polychloroprene<br>Coated 5 oz. nylon fabric for diaphragm applications<br>Temperature range -20°F to 170°F continuous |

### Typical Rubber Properties

| <u>Typical Rubber Properties</u> | <u>Test Method</u> | <u>Typical Value</u> |
|----------------------------------|--------------------|----------------------|
| Hardness (Shore A)               | ASTM D1414         | 60 ±5                |
| Tensile Strength                 | ASTM D412          | 820 psi min          |
| Elongation                       | ASTM D412          | 300% min             |

### Coated Fabric Properties

| <u>Coated Fabric Properties</u> | <u>Test Method</u> | <u>Typical Value</u>    |
|---------------------------------|--------------------|-------------------------|
| Width                           | ASTM D751          | 36” & 48” usable        |
| Gauge (36” wide)                | ASTM D751 1-Ply    | .031, .062, .093, .125, |
| Gauge (36” wide)                | ASTM D751 2-Ply    | .125, .187, .250        |
| Gauge (48” wide)                | ASTM D751 1-Ply    | .031, .062, .093, .125, |
| Gauge (48” wide)                | ASTM D751 2-Ply    | .125, .187, .250        |
| Finish                          | Visual             | Plate/Smooth            |
| Color                           | Visual             | Black                   |

- Thickness & Width as specified.

### General Polymer Characteristics:

Neoprene rubber is an all-purpose elastomer and an extremely versatile synthetic rubber used in thousands of applications. Neoprene rubber resists degradation from sun, ozone and weather and performs well in contact with oils and chemicals. Neoprene rubber maintains its strength, flexing, twisting and elongation very well over a wide temperature range while having outstanding physical toughness. Many grades of neoprene are available depending on the application.

The cloth inserted material utilizes a 5 osy nylon to give the polymer added dimensional stability in both directions. The 5 osy nylon reinforced material is most suited for diaphragm applications where dynamic flexing is anticipated.

Thermodyn products are manufactured to general RMA standards and meet the above data sheet guidelines. It is the responsibility of the end user to qualify the material to its intended application. Defects or damage resulting from misuse or mishandling are not covered by Thermodyn’s limited liability policy. Values covered in this data sheet are nominal values that we believe to be accurate and reliable for purposes of qualification in end use applications.