



Nitrile “Diaphragm” Rubber

Product Code: Style 6165

Description: 60 Duro Nitrile Diaphragm Rubber

Specifications: Nitrile rubber - copolymer of butadiene and acrylonitrile
Buna-N, NBR
Coated nylon fabric for diaphragm applications
Temperature range -20°F to 170°F continuous

<u>Typical Rubber Properties</u>	<u>Test Method</u>	<u>Typical Value</u>
Hardness (Shore A)	ASTM D2240	60 ±5
Tensile Strength	ASTM D412	800 psi min
Elongation	ASTM D412	300% min

<u>Coated Fabric Properties</u>	<u>Test Method</u>	<u>Typical Value</u>
Width	ASTM D751	36” & 48” usable
Gauge (36” wide) .187, .250	ASTM D751 1-Ply	.031, .062, .093, .125,
Gauge (36” wide)	ASTM D751 2-Ply	.125, .187, .250
Gauge (48” wide) .093, .125, .187, .250	ASTM D751 1-Ply	.015, .031, .062,
Gauge (48” wide)	ASTM D751 2-Ply	.125, .187, .250
Finish	Visual	Plate/Smooth
Color	Visual	Black
Base Fabric		5oz Nylon

- Thickness & Width as specified.

General Polymer Characteristics:

Nitrile rubber is a copolymer of butadiene and acrylonitrile. In addition to its excellent elastomeric properties, it is resistant to oil, caustics, and aliphatic hydrocarbons. Its maximum temperature limit is 212° F. Nitrile Rubber is also referred to as Buna-N Rubber or NBR.

The cloth inserted material gives the polymer added dimensional stability in both directions. It is suitable for select diaphragm sheet applications.

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.