



VITON® DIAPHRAGM



Viton® Diaphragm Data Sheet

General Characteristics

Viton Diaphragm sheet is manufactured with high quality Viton rubber compounds designed for long service. This fluorocarbon rubber sheet is reinforced with Nylon, Nomex, or Fiberglass fabric to provide strength. Recommended use for control valves, regulators, pumps etc. Typically available in one ply of fabric, multiple plies can be used for high pressures, and more demanding applications.

Fluoroelastomer / Nomex

VX-0002

Coated Fabric Properties	Test Method	Typical Values
Grab Tensile - Wrap	ASTM D 751	100 lbs.
Grab Tensile - Fill	ASTM D 751	70 lbs.
Mullen Burst	ASTM D 751	300 psi
Adhesion	ASTM D 751	3 lbs. / in.
Hydrostatic	ASTM D 751	200 psi
Temperature Range	None Cited	-5°F to 450°F

NOTE: VX-0002 is typically manufactured at 0.020 in. ± 0.005 in. and 0.025 in. ± 0.005 in.

Fluoroelastomer / Anti-Wicking Nomex

VX-0003

.032" Black Anti-wicking Viton/Nomex

Coated Fabric Properties	Test Method	Typical Values
Color	Visual	black
Gauge	ASTM D 751-89	0.027 in. to 0.037 in.
Grab Tensile - Wrap	ASTM D 751-89	min 75 lbs.
Grab Tensile - Fill	ASTM D 751-89	min 75 lbs.
Mullen Burst	ASTM D 751-89	160 psi
Peel Adhesion	ASTM D 751-89	min 7 lbs. / in.
Hydrostatic	ASTM D 751-89	200 psi
Temperature Range	None Cited	-5°F to 450°F
Wick Resistance		Pass
Width	ASTM D 751-89	50" +/- 1"

Coated Fabric Properties	Test Method	Typical Values
Color	Visual	black
Gauge	ASTM D 751-89	0.050" ± 0.005"
Grab Tensile - Wrap	ASTM D 751-89	min 450 lbs.
Grab Tensile - Fill	ASTM D 751-89	min 450 lbs.
Mullen Burst After Heat Aging	ASTM D 751-89	min 800 psi min 750 psi
Peel Adhesion (Side 1 & Side 2 identical)	ASTM D 751-89	min 5 lbs. / in.
Volume Change	ASTM D 751-89	max 6 %
Width	ASTM D 751-89	37" usable

Fluoroelastomer / Fiberglass

Due to its composition, this product offers excellent resistance to chemicals and fuels in high temperature applications.

Coated Fabric Properties	Test Method	Typical Values
Color	Visual	black
Grab Tensile - Fill	ASTM D 751	60 W x 60 F
Mullen Burst	ASTM D 751	200 psi
Temperature Range	None Cited	-5°F to 450°F

NOTE: VG 0001 is typically manufactured at 0.010 in. ± 0.002 in.

Fluoroelastomer / Polyester

This product offers outstanding chemical resistance to many environments including ozone, oils, and sulfur-containing lubricants.

Coated Fabric Properties	Test Method	Typical Values
Grab Tensile - Wrap	ASTM D 751	65 lbs.
Grab Tensile - Fill	ASTM D 751	55 lbs.
Mullen Burst	ASTM D 751	125 psi
Temperature Range	None Cited	-5°F to 300°F

NOTE: VD-0001 is typically manufactured at 0.008 in. +0.002 in./-0.001 in.



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