

industries3r.com

Danville office

Industries 3R inc. 55, Road 116 West Danville (Quebec) Canada J0A 1A0

Telephone: (819) 839-2793 Fax: (819) 839-2797 Toll-free: (800) 567-2728 Email: info@industries3r.com

Montreal office

Industries 3R inc. 1479, Begin street Ville St-Laurent (Quebec) Canada H4R 1V8 Telephone: (514) 333-3971 Fax: (514) 333-7224 Email: info@industries3r.com

NOMEX 410 VULCANIZED PAPER

Designed as an electric insulation, the Nomex 410 is a synthetic paper that presents a good dielectric strength. It is compatible with all classes of resins, varnishes, glues, transformer liquids, lubricating oils and usual refrigeration agents. The Nomex 410 can be used in a majority of electrical equipment application. This vulcanised paper is available in many thiscknesses and dimensions. We can also cut the material according to your specifications.



APPLICATIONS

The Nomex 410 is used in almost every electrical sheet insulation application. Its application scope extends from DC to AC motors and generators, and also dry and oil cooled transformers.

SPECIFICATIONS

Electrical properties

Dielectric resistance (kV/mm)	
AC rapid rise (ASTM D-149)	
• Thickness of 0.25mm (0.010")	32
• Thickness of 0.38mm (0.015")	33
Full wave impulse (ASTM D-3426)	
 Thickness of 0.25mm (0.010") 	63
• Thickness of 0.38mm (0.015")	55

Thermal Properties

Thermal conductivity at 150°C (mWatt/mK)	
Thickness of 0.25mm (0.010")	139
Thickness of 0.38mm (0.015")	149

Mechanical properties

Weight (g/m²)	
Thickness of 0.25mm (0.010")	249
Weight (g/m²)	
Thickness of 0.38mm (0.015")	397
Density (g/cc)	
Thickness of 0.25mm (0.010")	0.96
Thickness of 0.38mm (0.015")	1.03
Tensile strength (N/cm)	
Thickness of 0.25mm (0.010")	Machine direction: 285 Cross direction: 152
Thickness of 0.38mm (0.015")	Machine direction: 459 Cross direction: 252
Elongation (%)	
Thickness of 0.25mm (0.010")	Machine direction: 19 Cross direction: 15
Thickness of 0.38mm (0.015")	Machine direction: 19 Cross direction: 14
Elmendorf tear (N)	
Thickness of 0.25mm (0.010")	Machine direction: 6.0 Cross direction: 10.8
Thickness of 0.38mm (0.015")	Machine direction: 9.5 Cross direction: 17.2
Tear strenght (N) ASTM D-1004	
Thickness of 0.25mm (0.010")	Machine direction: 71 Cross direction: 42
Thickness of 0.38mm (0.015")	Machine direction: 116 Cross direction: 74
Shrinkage at 300°C (%)	
Thickness of 0.25mm (0.010")	Machine direction: 0.4 Cross direction: 0.1
Thickness of 0.38mm (0.015")	Machine direction: 0.3 Cross direction: 0.2

N.B. The information, details and values indicated are to the best of our know ledge. We recommend to conduct tests according to local conditions. The data is subject to some variations w ithout notice.