PRECISION PRODUCTS GROUP, INC.

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Nomex® Aramid Paper Tubing

Bulletin #P-9

- Nomex® tubing is made by spirally winding strips of Nomex® using a uniquely formulated adhesive for lamination. Insulating tubing of this high temperature, flame-resistant, nylon paper offers significant functional and economical advantages over present high-temperature, insulating sleeving.
- Tubing of Nomex® will operate continuously at 220ºC in UL recognized systems. It does not support combustion and has excellent chemical and radiation resistance.
- Nomex® can also be used in virtually any combination of plastic films, papers or substrates that we currently spirally wind. This allows us to meet your exact needs when the properties of more than one material are required.

Nomex® tubing is available in the following sizes:	
Rectangular, Square 1" – 100" perimeter	Round .060" – 2" ID
Wall thickness:	
Rectangular, Square Unlimited	Round .004" to .040" with limitations
Length:	
Rectangular, Square 24" standard *(tolerance +/- .031", standard 24")* *(+/-.005" cut to length)*	Round Up to 36" *(tolerance +/-.250" standard 36")* *(+/-.015" cut to length)*

- Sleeving can be supplied in colors, striped or pre-printed.
- For more critical tolerances and information about printing capabilities, please inquire.

Note: This material property information is the best currently available on the subject. The data should be viewed as a general guide to tube and material properties, not a performance guarantee. The customer should examine the suitability of the finished product for individual applications.

General Properties for Tubing of Nomex®

Properties	Data	Test Method
Melting point	will not melt or drip	-
Service temperature	-80ºC to 220ºC	-
Temp effect on electrical & mechanical properties	Retains 75% and above of orig. at 180ºC	
Dielectric strength	500 volts/mil (min) @ 25ºC, 60 cycle	ASTM D-149-61
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Moisture effects on electrical Properties*	4-11%	-
*Dielectric strength and volume resistivity not essentially changed between 0 and 95% humidity		
Flammability	Does not support combustion; will burn to brittle char.	-
Resistance to Freon	Excellent	-
Resistance to ordinary industrial solvents, varnishes and acid and bases	Excellent	-
Resistance to special liquids	Retains 90-100% of original tensile strength after 7 days exposure to chlorinated solvents, ethyeneglycol, jet fuel, etc.	-
Effect of radiation	Retains excellent properties after exposure to Beta and/or Gamma radiation	-
Corona resistance	Excellent	-
Tear and puncture resistance	Excellent	-
Resistance to fungus, bacteria	Good	-

* Nomex is a registered trademark of DuPont

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