

"Nomex[®]" Insulating Tubing & Bobbins (Thermoform - 700)

Data Sheet No. P-296

General Information

Nomex is a calendered, aramid insulation paper that, when wound into an insulating tube with appropriate binders, offers superior high temperature resistance and high dielectric strength in insulating tubing and bobbins. Nomex also possesses excellent mechanical toughness, resilience and high mechanical strength. Nomex does not melt nor support combustion in air, and temperatures up to 200° C. (390°F.) have little or no effect on the electrical and mechanical properties of Nomex. It retains its physical and electrical properties for long periods of time — at least 50% of critical original properties for 10 years at 220° C (428° F).

Nomex is essentially unaffected by most solvents, and is unusually resistant to attack by acids and alkalis. It is compatible with transformer fluids, varnishes, lubricating oils and refrigerants. Neither is it attacked by insects, fungi or molds. At the boiling point of nitrogen (77° K.) Nomex has a tensile strength in excess of room temperature.

"Nomex" tubing is an excellent choice for transformer forms and collar supports; voltage regulator transformers; primary coil forms; as bobbins in high temperature, continuous run motors; motor shaft insulators and spacers for industrial type, heavy duty tools; high temperature potting cases; heat insulators and shields; and flame proofing applications.

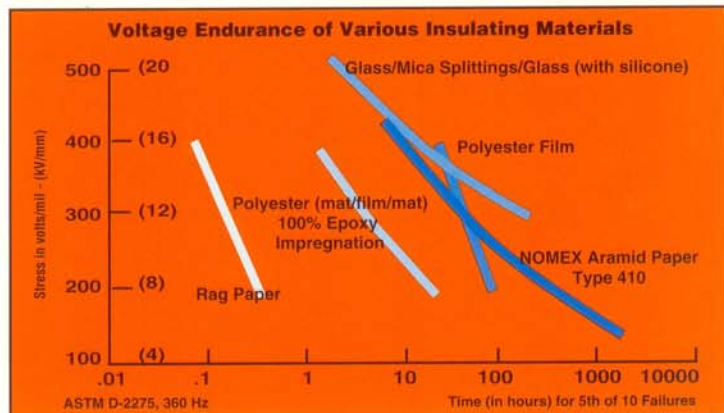
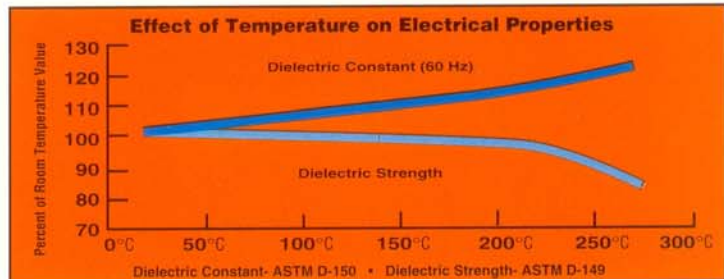
"Nomex" Tubing (Thermoform-700) is listed on U/L Yellow Card No. E50630

Other Products by Precision

A complete range of dielectric tubing and bobbins produced to your specifications from a wide variety of materials; including low cost, flame retardant, heat shrinkable, phenolic impregnated, etc. Also available are capacitor covers, molded and fabricated coil forms, punched and stamped parts, PC coil forms and collars, pre-lugged and threaded coil forms.

"Nomex" Tubing Physical Properties†

Dielectric Strength (VPM min.).....	720
High Temperature Range - ° C.	220
Dielectric Constant (ASTM D-150).....	2.9
Volume Resistivity - Ohm/cm. (@ 25°C.).....	10 ¹⁶
Specific Gravity.....	.99



† Physical property values are published by DuPont and are typical for 12 mil "Nomex" paper. Neither DuPont nor Precision Paper Tube Co. intends this information to be used as design data but publishes it only as a helpful suggestion to be used in your own experimentation. Further information on DuPont "Nomex" insulating paper is available from the DuPont Co. Our Engineering Dept. will be glad to work with you on individual problems.



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