

Nomex®/ Polyester Sleeving

Bulletin S-5

- Sleeving of Nomex®/Polyester is made by spirally winding polyester (Type NS PET) over an inner ply of Nomex® using a specially formulated Polyester resin as a bonding agent. Originally developed as crossover or tap wire and lead wire insulation, the Nomex® inner ply shields the polyester plies from excessive heat during the soldering or welding of a splice. Since Nomex® will not melt or support combustion, burn back of the sleeving is limited.

Nomex® Polyester sleeving is available in the following sizes:

Inside diameters	Avg. size 18 Ga. (.046" to 1.625") tolerance +/- .005"
Wall thickness	.004" to .006" Std. (.002 Nomex®/ .002 NS PET or .003 Nomex®/.003 NS PET)
Lengths	Up to 36" Standard tolerance +/- .250 Cut to length pieces +/- .005"

- For more critical tolerances and information about printing capabilities, please inquire.

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General Properties for Tubing of Nomex®/ Polyester		
<u>Properties</u>	<u>Data</u>	<u>Test Method</u>
Melting point	Nomex® will not melt Polyester 250°C to 255°C	-
Service temp	-60°C to 150°C	-
Dielectric strength	1200 volts/mil (min) @ 25°C, 60 cycle	ASTM D-149-61
Dielectric strength	1000 volts/mil (min) @ 150°C, 50 cycle	ASTM D-149-61
Water absorption	1% max. 24 hr, immersion @ 25°C	ASTM D-570-595
Flammability	Limited burn back self-extinguishing	-
Corrosive effect on copper	Negligible	-
Resistance to Freon 22	Excellent	-
Transformer oil resistance	Excellent	-
Resistance to ordinary industrial solvents, varnishes, acid and bases	Excellent	-
Fungus and bacteria resistance	Good	-
Bending recovery	Excellent	-
Tear and puncture resistance	Excellent	-
Abrasion resistance	Good	-

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.

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