

NITOFLON impregnated glass cloth

No.970-2UL No.970-4UL No.9700UL

Outline

NITOFLON Tapes NO.970-2UL, NO.970-4UL, NO.9700UL consist of glass-cloth and coated Polytetrafluoroethylene (PTFE) resin on both sides.

The products offer excellent chemical resistance, electrical / mechanical strength, lubrication, weather-resistance, heat-resistance, and adhesive-free property.

Construction



Fig. 1

Features

Three types are available depending on PTFE impregnation weight and production processes.

No.970-2 UL : Standard

No.970-4 UL : High Impregnated type

No.9700 UL : Ultra High Impregnated (Surface Smooth type)

- The products are coated with stable molecular structure of PTFE. They are unaffected by virtually almost industrial chemicals and solvents.
- The products remain stable in wide temperature range from -100 deg. C up to +260 deg. C.
- Having low dielectric constant and dissipation factor, the products can be used in comprehensive range of frequencies.
- The products are unaffected by humidity, visible lights/ultraviolet lights, and microorganisms. Dirties/dusts/foreign materials can be easily eliminated.
- The products have the lowest friction coefficient among all solid materials, giving excellent autolubrication property. Also offer adhesion-free property and good reliability.

1/2
NO.9702UL,NO.9704UL,NO.9700UL_07E

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Applications

- For releasing from molding
- For heat-sealing packaging materials
- For conveying belts in food processing
- For paper conveying belts in copiers
- For wire and cable structural materials

General Properties

Table 1

Property	Unit	Characteristic Value									
		NO.970-2UL			NO.970-4UL			NO.9700UL			
Base material thickness	mm	0.05	0.10	0.13	0.05	0.10	0.13	0.05	0.10	0.13	
Total thickness	mm	0.07	0.12	0.17	0.08	0.13	0.18	0.08	0.14	0.18	
Tensile strength	Lengthwise	N/15mm	200	400	420	200	320	340	200	300	350
	Width wise	N/15mm	160	370	370	160	330	340	160	300	320
Friction coefficient	—	0.08	0.08	0.10	0.08	0.08	0.10	0.08	0.08	0.10	
Breakdown voltage	kV	—	—	—	1.3	1.4	1.9	1.3	1.5	1.6	
Volume resistivity	$\Omega \cdot \text{cm}$	—	—	—	10^{16}	10^{16}	10^{16}	10^{16}	10^{16}	10^{16}	

*The above values are sample observed values, not the guaranteed performance.

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