

NITOFLOX No.903UL

Outline

Heat-resistant adhesive tape "NITOFLOX NO.903UL" consisting of PTFE(polytetrafluoroethylene) film and silicone adhesive layer.

Structure



Fig. 1

Features

- Superior flame resistance.
- Superior in mold-releasing and sliding property.
- Non-adhesive side of the tape offers excellent characteristics of polytetrafluoroethylene, such as electrical property, resistance to heat, weather, chemical, and water (water-shedding), low friction coefficient and non-adhesiveness.
- Can smoothly adhere, wind, band and seal, just like regular adhesive tapes.

Applications

- For heat-resistant masking.
- For heat-sealing.
- For heat-resistant electrical insulation

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Standard Products Size

Table. 1

Thickness(mm)	Width(mm)	Length(m)
0.08	5,9,10,13,15,19,20,22,25,30,38,40,50,75, 100,200,250,300,350,400,450	10
0.13		
0.18		
0.23		

*Contact us for information concerning sizes other than standard sizes.

General Properties

Table. 2

Properties	Unit	Typical Values			
		0.08t	0.13t	0.18t	0.23t
Thickness	mm	0.08	0.13	0.18	0.23
Tensile strength	N/19mm	55	93	160	210
Elongation	%	180	220	220	220
Peeling strength	N/19mm	5.6	7.1	7.4	8.7
Unwinding force	N/19mm	4.4	5.8	7.1	8.9
Breakdown voltage	KV	8	11	14	15
Surface resistivity	Ω/\square	10^{16}			
Volume resistivity	$\Omega \cdot \text{cm}$	10^{15}			
Copper corrosion	-	None			
Heat resistance	-	Good			
Coefficient kinetic friction	-	0.1			
Flame Retardant	-	UL510 Flame Retardant (File E34833)			
Color	-	Gray			
Temperature Use Range	$^{\circ}\text{C}$	-60 to 200			

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Table. 3

Name of chemicals	Condition	Chemical resistance ^{1),2)}
20% Sulfuric acid	80°Cx24hours	+++
Concentrated sulfuric acid	20°Cx6days	-
Concentrated hydrochloric acid	20°Cx27days	+++
Concentrated hydrochloric acid	80°Cx14hours	+++
Concentrated nitric acid solution	20°Cx25days	+++
Glacial acetic acid	15°Cx24hours	+
20% Sodium hydroxide (NaOH)	80°Cx24hours	-
20% Sodium hydroxide (NaOH)	20°Cx17days	++
Ammonia water	20°Cx25days	+++
Toluene	80°Cx14hours	-
Butanol	20°Cx15days	++
Acetone	20°Cx15days	+++
Transformer oil	80°Cx24hours	+++
Machine oil	20°Cx15days	+++

- 1) +++ : No change ++ : Break away at the edge + : Break away at same part -: Break away completely
 2) Adherent: Stainless steel (SUS304) Pressure bonding weight: 2Kg
 Sample is dipped into chemical and judged by appearance of tape(NITOFLON)

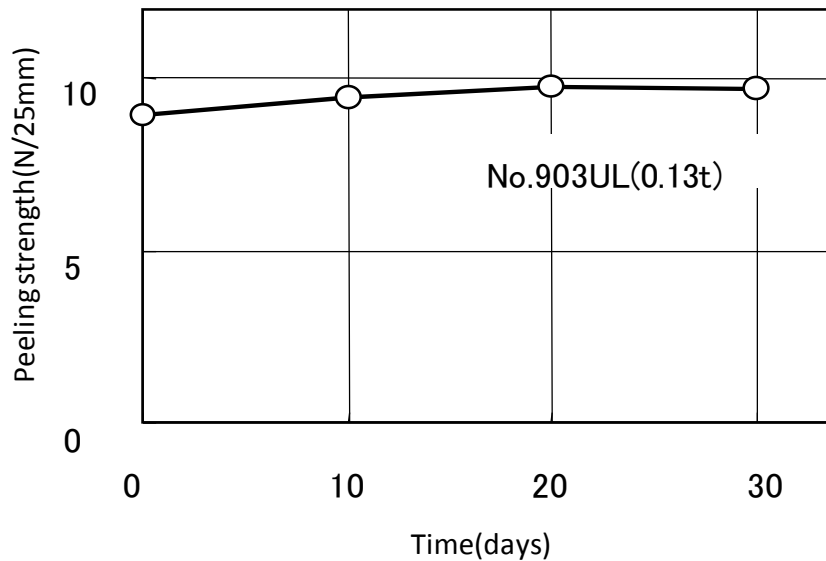


Fig.1 180 degrees heat resistance

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