

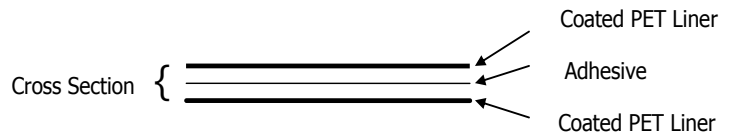
NT 1001 | CLEAR SILICONE TRANSFER ADHESIVE | TRANSFER ADHESIVE TAPES

TRANS-SIL® NT 1001 silicone transfer adhesive is designed for high performance applications requiring chemical resistance, excellent bond strength and resistance to extreme temperatures (-300°F to 500°F). The 2 mil silicone adhesive is protected by two clear polyester film liners. NT 1001 bonds well to metals, silicone foam, most plastics and low energy surfaces such as polyethylene and polypropylene.

FEATURES & BENEFITS

- Excellent chemical resistance
- Excellent bond strength
- Performs in extreme temperatures
- UV Resistant

CONSTRUCTION DIAGRAM



TYPICAL APPLICATIONS

- Electronics
- Aerospace
- Medical

CONSTRUCTION

2 mil Fluorosilicone Coated PET liner
2 mil pressure sensitive silicone adhesive
2 mil Fluorosilicone Coated PET liner
Clear

PERFORMANCE

180° Peel Adhesion (20 min dwell) oz./inch	55 oz/inch
Continuous operating temperature extremes	-300°F to 500°F (-185°C to 260°C)
Intermittent temperature operation	up to 700°F

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180° PEEL ADHESION AND SHEAR STRENGTH, ROOM TEMPERATURE

SURFACE ENERGY		PEEL STRENGTH 1 mil PET				SHEAR STRENGTH 1 mil PET
		20 minute dwell		24 hour dwell		24 hour dwell 1" x 1" 1000 gms
Dynes/cm		oz./in.	N/100 mm	oz./in.	N/100 mm	Minutes to fail
400	Alum.	48	53	50	55	> 10,000
	Stainless steel	48	53	50	55	> 10,000
Cu,Zn,Sn,Pb						
	Glass	44	48	49	54	> 10,000
	Polyimide	40	44	44	48	> 10,000
Phenolic, Nylon						
	Polyester	39	43	43	47	> 10,000
	ABS	45	49	47	51	> 10,000
	Polycarbonate	43	47	45	49	> 10,000
	PVC	44	48	45	49	> 10,000
	PPO	45	49	46	50	> 10,000
	Acrylic	41	45	41	45	> 10,000
PVA,PS,EVA						
	Polyethylene	41	45	44	48	> 10,000
	Polypropylene	39	43	43	47	> 10,000
TEDLAR						
	SIL	37	40	37	40	> 10,000
18	TF	31	34	32	35	> 10,000

ELECTRICAL PROPERTIES

NT 1001 silicone adhesive as a dry, cured self-supported mass: no film support

ASTM Procedure

Dielectric Strength	D-149	1487 volts/mil @ 2 mils of adhesive = 2974 volts
Dielectric Constant	D-150	@ 10 ² Hz = 2.99; @ 10 ⁵ Hz = 2.93
Dissipation Factor	D-150	@ 10 ² Hz = 0.0046; @ 10 ⁵ Hz = 0.0025
Volume Resistivity	D-257	@ 75 volts/mil, ottm-cm = 2.5 x 10 ¹⁵

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