



PRODUCT BULLETIN

T1767 - Polyester Adhesive on Polyester Film

DESCRIPTION

T1767 is a family of Sheldahl engineered adhesives on polyester films for the manufacture of flat conductor cables. These tapes can be provided with various combinations of adhesive thickness and polyester film thickness.

FEATURES

- These tapes have been specifically formulated for fabricating flexible flat conductor cables, or a coverlay for flexible circuitry.
- **T1767** cables can be designed as a rolled up cable or accordion folded.
- Flat conductor cables are a lightweight, cost effective interconnection for circuitry applications.
- The high temperature adhesive system has allowed solder coating of cable leads without delamination in certain processes.
- **T1767** products can be heat sealed with a hot nip roll at $350^{\circ}\text{F} \pm 10^{\circ}\text{F}$, 80 - 100 psi or platen pressed at $275^{\circ}\text{F} - 300^{\circ}\text{F}$, 100 - 200 psi for 10 minutes and cooled under pressure to 100°F .
- Manufactured under a statistically controlled process (SPC).
- Shelf Life: 6 months when stored at 70°F , 50% R.H. Longer if stored at lower temperatures and lower humidities.

Sheldahl manufactures a broad range of flexible laminates and insulating materials. Ask for data bulletins describing other Sheldahl products.



T1767 - POLYESTER ADHESIVE ON POLYESTER FILM

PROPERTY TO BE TESTED AND TEST METHOD	TYPICAL DATA ^A
Peel strength, minimum, lb./in. - width IPC-TM-650, Method 1.4.9 As received Method A or Method B	8.0
Tensile strength, minimum, lb./square inch, ASTM-D-882	24,000
Elongation, minimum percent, ASTM-D-882	90
Initial Tear Strength, minimum gms, IPC-TM-650, Method 2.4.16	800
Dimensional Stability, maximum, percentage, IPC-TM-650, Method 2.2.4, Method A	0.45 ^B
Flow, maximum (squeeze out in mils), IPC-TM-650, Method 2.3.17.1	10
Volatile Content (maximum percent), IPC-TM-650, Method 2.3.37	1.5
Chemical Resistance Percentage, IPC-TM-650, Method A	70*
Dielectric Constant, maximum (at 1MHz), IPC-TM-650, Method 2.5.5.3	3.4 ^C
Dissipation Factor, maximum (at 1mhz), IPC-TM-650, Method 2.5.5.3	0.02 ^C
Volume Resistivity, minimum megohms-cm, IPC-TM-650, Method 2.5.17	10 ⁷ ^C
Surface Resistance, minimum, megohms, IPC-TM-650, Method 2.5.17	10 ³ ^C
Dielectric Strength, minimum volts/mil	2 mil = 5000 3 mil = 4800 4 mil = 4200 5 mil = 3900
Moisture Absorption, maximum, percent, IPC-TM-650, Method 2.6.2	0.4
Tensile Modulus (psi), ASTM-D-882	440,000

^A Sheldahl does not gurantee, nor will it accept obligation or liability based on the use of this data.
Data
subject to change without notice.

^B Does not include 1 mil film.

^C Based on 1.5 mil adhesive x 2 mil polyester film.

* Except chlorinated solvents and keytones.

For minimum design requirements, consult factory.