



Flexbase™ T9023 Electronic Materials High Performance Flame-Retardant Adhesive on Tedlar® Film

Description

Sheldahl Flexbase™ T9023 products use our proprietary high performance, flame-retardant adhesive and Tedlar film, creating a single or double sided composite. T9023 tapes are engineered for use in as buss-bars, flexible ribbon cables, and jumpers. Finished products may achieve a minimum continuous use temperature rating of 125°C. Sheldahl materials are processable in rolls.

Features

- **Dielectric:** Tedlar film.
- **Adhesive:** Self extinguishing, thermally activated, modified epoxy.
- **Stability:** Sheldahl's superior manufacturing process ensures consistent dimensional stability.
- **Processing:** Easily processed using standard manufacturing procedures.

Storage

Material stored in original packaging, at temperatures of 40-80°F (4-26°C), and below 70%RH will retain their properties for a minimum of 1 year. Excessive exposure to heat and moisture may cause reduction of shelf life.

Quality

Sheldahl products are manufactured using quality systems that conform to ISO, QS, and TS quality standards. Key product characteristic are tested and monitored in accordance to IPC standards. Certifications are available with product shipments.

Constructions

- **Film Thickness:** 1, 1.5, or 2mils (25, 38, or 50µm)
- **Adhesive Thickness:** 0.5 - 3mil (12.5 - 75µm)
- **Width:** Standard roll width is 24" (610mm)
- **Stack-up:** Use a combination of film and adhesive to achieve the desired total thickness

Specialty thickness and widths available please contact your Sheldahl representative.

Contact Information:

USA: Telephone – 507-663-8344
Europe: Telephone – 33-387-847-477
Worldwide: Telephone – 507-663-8344

Come visit us at www.Sheldahl.com

Ordering Information:

When ordering please specify:

- Film thickness
- Adhesive type (flame-retardant or non flame-retardant)
- Adhesive thickness
- Adhesive on one side or both
- Roll width

Lamination Conditions:

	SAE	Metric
Platen temperature	255-350°F	125-175°C
Pressure	100-200 PSI	7-14 kg/cm ²
Time (at temperature)	20 - 30 min	20 - 30 min
Cool under pressure	≤ 120°F	≤ 50°C

PROPERTY	Test Method	TYPICAL DATA ^A
Peel Strength, minimum, (lb./in. – width)	IPC-TM-650, Method 2.4.9	4.0
Flammability 94 UL VTM-0	UL Test Method 94 VTM-0	Pass ^(C)
Volatile Content (maximum %)	IPC-TM-650, Method 2.3.37	1.5
Chemical Resistance	IPC-TM-650, Method 2.3.2	70% ^(D)
Adhesive Tack Temperature	Clarkston Bar	150 - 250°F
Flow, maximum, (mils)	IPC-TM-650, Method 2.3.17.1	1.5 ^(B)
(A) Sheldahl does not guarantee, nor will it accept obligation or liability based on the use of this data. Data subject to change without notice.		
(B) Based on 1.5 mil adhesive.		
(C) Based on standard constructions using flame retardant adhesives, consult factory for data on specific constructions.		
(D) Except chlorinated solvents and ketones.		

*The information contained herein is based upon typical data, Sheldahl makes no warranties expressed or implied as to its accuracy and assumes no liability arising out of its use by others. The user should determine suitability of Sheldahl materials for each individual application.