

DuPont™ Tedlar®

polyvinyl fluoride film

DuPont™ Tedlar® Heat-Sealable Film

Introduction

Typical applications for DuPont™ Tedlar® heat-sealable film are fabrication of bags for use in gas sampling, and encapsulation of sound-absorbing ceiling tiles. Heat-sealing Tedlar® PVF film to itself requires a clean, contaminant-free surface. When purchasing Tedlar® for thermal seal fabrication, specify non-adherable “S” surface film.

The tendency of Tedlar® to shrink at elevated temperatures must be taken into account when selecting heat-seal equipment.

Because of the tendency to shrink, it is essential that the sealer hold the film securely during heating and cooling cycles. Two types of heat sealers meet this requirement and are recommended for sealing Tedlar®: thermal impulse and rotary band.

Heat-Seal Equipment

Because there are many heat-seal equipment suppliers and models available, the following heat seal recommendation is presented as a guideline to enable fabricators to optimize heat seal bond values on their equipment. The Tedlar® heat sealing temperature is 204–232°C (400–450°F) at 0.14 MPa (20 psi) jaw pressure. Most equipment dwell times at this temperature range are approxi-

mately a 1–2-second heat cycle followed by a 3–4-second cooling period. These conditions vary slightly with film thickness.

Impulse Heat Sealers

Vertrod Corp., 2037 Utica Avenue,
Brooklyn, NY 11234, (718) 241-8080

Rotary Band Sealers

Ralph Chaffee Company, 850 Mahler Road,
Burlingame, CA 94010, (650) 259-1888

Heat-Sealable Tedlar® Films

Pigmented Films

TGY85SL2
(insulation bags)

TWH10SS3

TWH20SS3

Transparent Films

TTR10SG3

TTR20SG4



The miracles of science™

For more information call (800) 255-8386

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