

## PTFE Molds for Flat Embedding Product No.10506, 10508

The two PTFE flat embedding molds, Prod. No.10506 (16 cavity) and Prod. No. 10508 (3 cavity), were designed for use with methacrylate or acrylic resins (i.e. LR White or Gold, Lowicryl K4M, GMA, etc.). Those low viscosity resins are oxygen-sensitive during polymerization. The cavities in the PTFE molds can be covered with two Thermanox<sup>®</sup> cover slips (22 x 60mm) or a single strip of ACLAR<sup>®</sup> film (21 x 120mm). These coverings will ensure an anaerobic polymerization with either thermal or low temperature UV polymerization.

The cavities in each mold should be partially filled with resin and the sample positioned. Next the cavities are overfilled so that resin from one cavity spills into the adjoining cavity. The recessed border around the cavities should not be filled to any great degree. The metal frame should be removed from the mold prior to use for polymerization. The frame is used to restore flatness to the mold after the blocks have been removed. The cover slips and/or film are placed over the plastic filled cavities in the following manner. One end of the cover slip or film is placed at the end of the recessed area surrounding the cavities and held in place gently with a wood stirring stick or similar device. With a tweezers, grip the other end of the cover slip or film and gently lower it over the resin filled cavities. This will eliminate air bubbles and allow the excess plastic to wick out to the edges of the recessed border. This will ensure an anaerobic environment underneath the coverslip or film.

Do not overfill the cavities to the extent that the plastic will wick out beyond the recessed border. If this happens and the metal frame is being used, a strong possibility exists—especially with thermal polymerization—that the mold and frame will become bonded.

**10502 ACLAR<sup>®</sup> Embedding Film**, 8 x 10" (20.3 x 25.4cm), pkg/10

**10503 ACLAR<sup>®</sup> Embedding Film**, 8 x 10" (20.3 x 25.4cm), pkg/25

ACLAR<sup>™</sup> Embedding Film is:

1. Optically clear
2. Sectionable with glass or diamond knives
3. Easily removed from polymerized plastic
4. Resistant to all EM chemicals

**10507 Thermanox<sup>®</sup> Cover Slips**, 22 x 60mm, pkg/100

Thermanox<sup>®</sup> Cover Slips are:

1. Easily removed from polymerized plastic
2. Sectionable with glass knives

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**TED PELLA, INC.**

*Tools for Science and Industry*

P.O. Box 492477, Redding, CA 96049-2477, U.S.A.

Telephone: 530-243-2200; 800-237-3526 (U.S.A. or Canada) • FAX: 530-243-3761

Email: sales@tedpella.com • Web Site: <http://www.tedpella.com>