



P+L Systems™

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## GLUPAC™

The GLUPAC™ brand of replacement glueboards are genuine P+L Systems consumables and are the only products guaranteed to provide the appropriate high quality glueboard for use in conjunction with your P+L flykiller. GLUPAC™ glueboards incorporate several important features and high material standards ensuring the glueboard is effective for an entire four week period, whilst working with the P+L flykiller to provide high quality insect control.

Features..

- Unique flexible glue application
  - Allows for maximum glue area
- Advanced UV stable glue
  - Guards against the glue drying out over a four week period
- Dry glue formulation
  - Reduces glue run from exposure to tube heat and mess free servicing
- Consistent thickness of glue application
  - Ensures no areas are either too thin to retain the caught insect
- Varnished base material
  - Reduces absorption of the glue into the base material
- High quality silicon coated release paper
  - Provides easy peel release paper for reduced service times
- Pheromone impregnated glue
  - Added Tricozene Z9 for an improved catch



## GLUPAC™ Vs competitor copy analysis

January 2008

In conjunction with an industry specialist, P+L Systems tested an original GLUPAC™ glueboard (FTC40) against an imitation glueboard supplied by a competitor. Four tests were undertaken.

1. Material specification
2. Glue area
3. Force required to remove the release paper
4. Glue tackiness

Each test was validated across three samples and the results recorded.

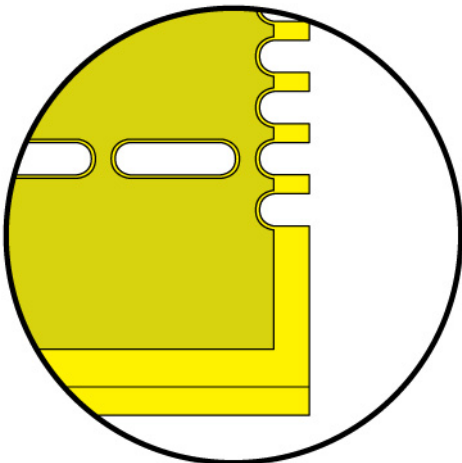
### 1. Material specification

The material specification significantly affects the performance of the glueboard. When compared several observations were noted.

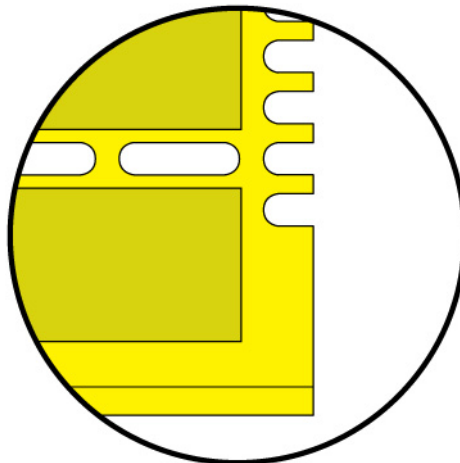
- The release paper used on the competitor glueboard was considerably thicker than on the GLUPAC™. There was limited silicon applied to the underside of the competitor release paper.
- Limited silicon, the release paper can absorb moisture from the glue.
- This leads to tearing of the release paper at point of service.
- The increase the thickness of release paper may be an attempt to mitigate this problem.

### 2. Glue area

Clearly a larger glue area should facilitate an increased catch. GLUPAC™ glueboards utilise unique technology to provide the maximum possible glue area. Analysis of the GLUPAC™ FTC40 and the competitor glueboard showed significant variation in glue area, best seen around the light holes cut into the glueboard.



GLUPAC™ glue area



Competitor glue area

- The GLUPAC™ glueboard has 10% more glue than the competitor glueboard.
- The extra glue that the GLUPAC™ glueboard has is in the most important area—below the tubes.

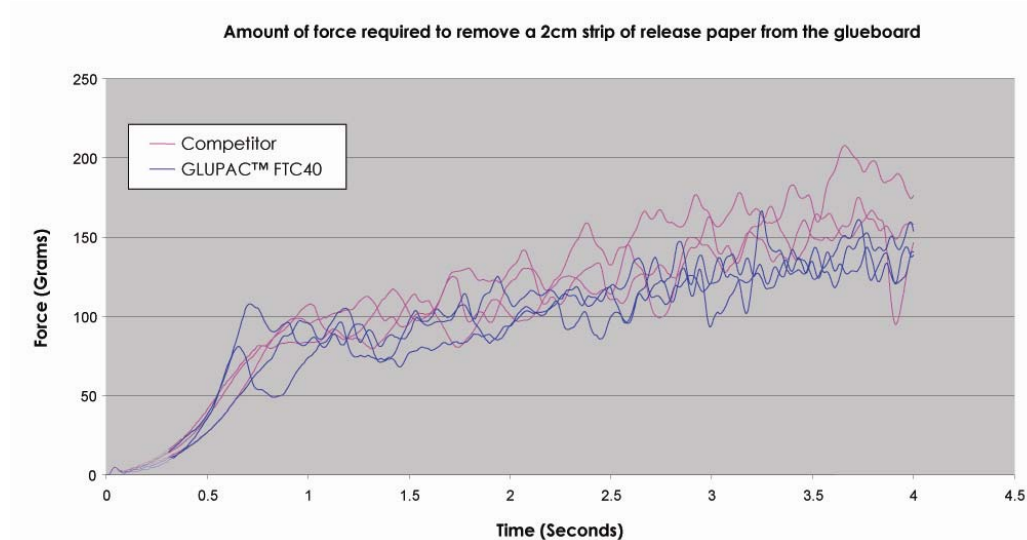
### 3. Force required to remove the release paper

This test was designed to understand the comparative forces required to remove the release paper from the glueboard.

A higher required force to remove the release paper indicates that the paper is absorbing the glue. This can lead to tearing of the release paper at the point of removal. In the worst cases, the paper can tear into



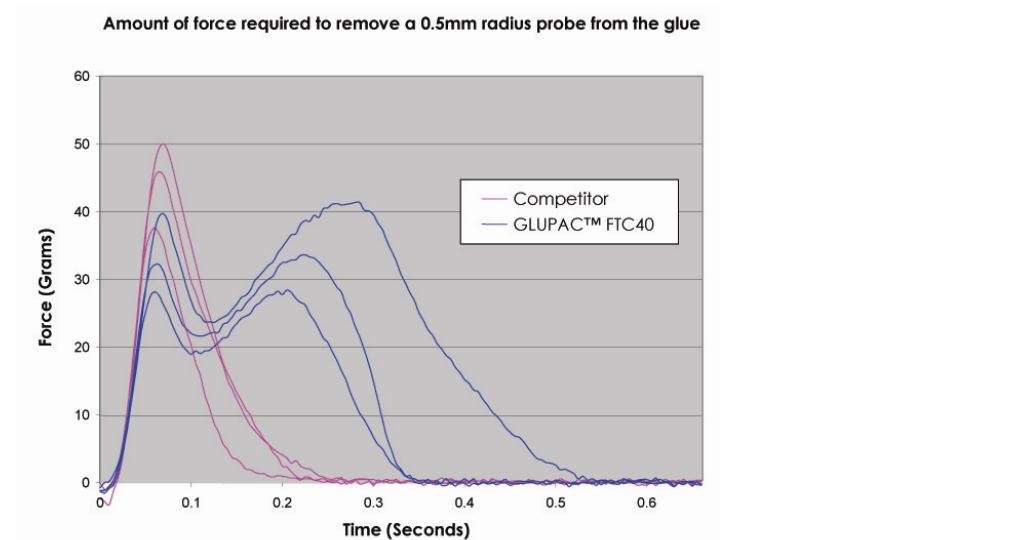
several pieces, considerably lengthening the service time. As the moisture of the glue is absorbed by the release paper, the 'tackiness' of the glue can also diminish.



- The higher force required to remove the competitor release paper suggests greater absorption of glue.
- This will intensify during storage and may cause increased service times and reduced tackiness.
- This is often caused by an insufficient layer of 'non stick' silicon on the release paper.

#### 4. Glue tackiness

The tackiness across the life of the glueboard is critical to effectively catching flies. The tackiness of the glue on the two glueboards was tested using a 0.5mm radius probe to measure the force required to free from the glue. The unique UV stable glue used within GLUPAC™ glueboards ensures consistent tackiness during the life of the board.



- The GLUPAC™ glueboard required over twice the force to remove the probe from the glue.
- Only the GLUPAC™ glueboard showed the desired 'two peak' force (0.075 and 0.275 seconds.)
- With only one 'peak' the competitor glue can allow the insect to land on the glue, then escape.