

Airframe Construction Materials Kit

Foam vs Composite Airframe Recognition & Characterization

\$2,950.00

2 Platforms | 2 Construction Classes | Lead Time: 6-8 Weeks



Overview

This kit equips bomb technicians with a direct material-comparison training set featuring 2 non-flying drone surrogates of the same large-format flying wing airframe built in two different construction materials -- expanded polyolefin (EPO) foam and glass-fiber reinforced polymer (GFRP) composite. Construction material directly impacts render-safe approach decisions, tool selection, and hazard assessment. Understanding what you are looking at before you touch it is foundational. All platforms are static training aids, not configured for flight.

Kit Contents

- **Large-Format Flying Wing - Foam (x1)** -- 2,122mm wingspan, EPO foam construction, 1-2 kg payload capacity. Lightweight, field-repairable, lower cost per unit. Threat: Medium-range ISR / Payload delivery.
- **Large-Format Flying Wing - Composite (x1)** -- 2,122mm wingspan, GFRP composite construction, same airframe geometry. Higher structural rigidity, weather resistance, and radar cross-section characteristics. Threat: Advanced ISR / Composite threat.

Training Focus

- Visual and tactile material identification (foam vs composite)
- Construction method indicators and manufacturing sophistication assessment
- Implications for render-safe tool selection (cutting, breaching, disassembly)
- Weight, rigidity, and damage-tolerance comparison
- Radar cross-section and detection implications of composite construction

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C-UAS Training Systems | Product Data Sheet

What's Included

- 2 fixed-wing UAS airframes -- same geometry, different construction materials
- Receiving, inspection, labeling and consolidated packaging
- Import compliance, customs clearance and CONUS freight
- Digital training reference package with platform specs, material analysis, and threat context

Ordering Information

Lead Time: 6-8 weeks from purchase order to CONUS delivery.

Contact: jeff.jennings@improvisedelectronics.com | 757-831-7150

Web: improvisedelectronics.com/product/airframe-construction-materials-kit

About Improvised Electronics

Improvised Electronics LLC builds realistic, functional training systems for public safety bomb technicians and military EOD professionals. Our C-UAS Training Kits provide non-flying drone surrogates that give technicians hands-on experience with the airframe types, construction materials, and configurations they will encounter in the field.