



# Custom Foam Tray Buyer's Guide

Engineered Components & Packaging Solutions

## The Economic Advantage: \$95 Custom Tooling

For Packaging, Mechanical, and Quality Engineers, the primary barrier to custom-molded packaging is the prohibitive cost of tooling. ECP solves this by offering precision-cut foam trays with custom cavities tailored to your specific components.

### \$95.00 NRE / Tooling Charge

**Unmatched ROI:** While vacuum-form molds or injection tooling can cost thousands of dollars, our foam process enables custom cavities for a flat **\$95** fee. This allows for rapid iteration, low-volume production runs, and cost-effective shipping solutions without compromising on part protection.

## Advanced Material Selection

Material	Key Characteristics	Best For
<b>EPE (Beaded Foam)</b>	High energy absorption and <b>excellent anti-abrasive</b> characteristics.	Polished surfaces, delicate finishes, and sensitive instrument components.
<b>XLPE (Cross-Linked PE)</b>	Closed-cell, non-abrasive, chemically inert, and low water absorption.	Medical diagnostics, cleanroom hardware, and Class-A surfaces.

Material	Key Characteristics	Best For
<b>Antistatic / ESD Foam</b>	Static-dissipative materials designed to protect electronics.	PCBs, semiconductors, sensors, and micro-assemblies.
<b>Polyethylene (PE)</b>	Durable, high-density foam with superior structural integrity.	Heavy machined parts, automotive components, and shipping inserts.

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### Strategic Industry Applications

- **Sensitive Machined Parts:** Protect critical tolerances, threads, and high-finish surfaces on aerospace and industrial components.
- **Medical Component Handling:** Secure organization and transit for diagnostic hardware, sensors, and laboratory instruments.
- **Electronics & ESD Control:** Safe shipping and assembly line storage for circuit boards and static-sensitive microelectronics.
- **Industrial Storage & Shipping:** Durable, custom-nested cavities for high-value tools and heavy components.

## Why Engineers Choose Foam Trays

- **Any Shape Possible:** No draft angles required; we can cut complex geometries in 2D matching your part configuration. Trays are CNC waterjet cut for precise and clean edges.
- **Vibration Dampening:** Superior energy absorption compared to rigid plastic, protecting parts from transit-related shock.
- **Rapid Turnaround:** Because tooling is simplified, lead times for custom trays are significantly shorter than traditional methods.
- **Shadow Boarding:** Use multi-colored foam layers for visual inventory control (instantly spot missing parts or tools).