

Phase 0: Discovery of Cost-Effective Sustainable Trays to Replace Existing EPS Trays

Client Needs

A global medical technology company responsible for advancing client health by improving medical discovery, diagnostics and delivery of care retained Adept Group to identify cost-effective, robust packaging tray design alternatives fabricated with sustainable materials to replace existing EPS packaging tray designs.

Challenges

- In-depth analysis of production lines at various manufacturing sites, product weight and an unusually high compression strength (top load) requirement during distribution presented Adept with tray design and performance challenges.
- Adept's medical device technical packaging knowledge, supplier network, and vast experience in working with Packaging Development Processes at other world class medical device manufacturers enabled Adept to propose more than ten viable sustainable packaging tray designs to meet established performance and cost objectives.

Results



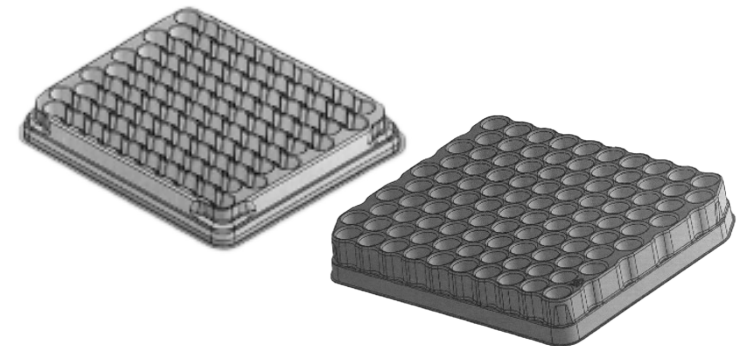
Met timing requirements for Phase 0 for client in 3 months period



Met client's expectation for delivery of design alternative

STEPS TAKEN BY ADEPT

- Adept collaborated with the client's project team consisting of Project Management, R&D and Packaging Engineering, Marketing, Procurement, Plant Controller and Quality Engineering to identify User/Engineering Requirements and Cost/Performance Objectives
- Adept managed supplier communications with the client's project team to ensure alignment and that all design and performance inputs were shared
- Adept educated the client's project team through presentation of alternative materials to EPS, their specific processes, advantage and disadvantages that addressed cost, tooling cost, processing and environmental advantages
- At client's request, Adept created and presented a Packaging Component Assessment Matrix (or Pugh Matrix) that ranked supplier design proposals against Cost, Design, Performance, Stability, Environmental Impact, and Manufacturability
- Final presentation of all proposed packaging tray design concepts, unit and tooling cost, supplier contact information and proposed next steps for Phase 1: Design & Development



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Packaging Project

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