

PHYSICAL ANALYSIS:

Industries Served: Aerospace, Defense. Electronics

Materials Tested: Plastics, Composites, Resins, Laminates, Flex/Rigid PCB's

Physical Analysis is an inspection technique that characterizes the physical properties of the products to ensure that they exhibit the quality workmanship required in meeting long term reliability requirements. Physical analysis includes dimensional verification, surface analysis to determine the product constituents and/or presence of contaminants, as well as inspection for other measurable attributes of product.

Current Test Capabilities/Method:

- Cleanliness (Ohmegameter)
- Coating Thickness (XRF)
- Differential Scanning Calorimetry (DSC)
- Dimensional Inspection and Verification
- Dimensional Stability
- Failure Analysis
- Flammability (UL 94, etc.)
- Fourier Transform Infrared Spectroscopy (FTIR)
- Hot Wire Ignition (HWI)
- Microsectional Evaluation
- Scanning Auger Analysis
- Scanning Electron Microscopy (SEM)
- Thermal Mechanical Analysis (TMA)
- Visual Inspection
- Workmanship Evaluation