



Inspiration • Innovation • Realization

Group Dekko Technical Center Services

Analytical Testing

Material Identifications
Material Comparisons
Reverse Engineering and Material Deformation
Using technologies such as:
Gas Chromatography
Liquid Chromatography HPLC and GPC
Inductively coupled Plasma Emission Spectrometry (ICP)
Fourier Transform Infrared (FTIR)
Differential Scanning Calorimetry (DSC)
Thermo gravimetric Analysis (TGA)
Wet Chemical and Gravimetric Methods
Solvent Extraction

Dimensional Testing

The dimensional metrology laboratory has the capabilities to perform dimensional analysis for first piece submittal, in-process verification and capability studies.

Electrical Testing

Insulation Resistance
Volume Resistivity
Surface Resistivity
Dry Circuit Resistance
AC/DC Voltage Measurement (0 to 40) kV dc/ (0 to 75) kV ac
Interface Voltage Drop Measurement
AC Dielectric Testing (0 to 75)kV
DC Dielectric Testing (0 to 7000)V
Dielectric Breakdown (AC/DC)
Thermal Imaging
Surge Testing

Exposure Testing

Environmental Simulation (hot, cold, thermal shock, dry, wet, corrosive vibration and UV exposure.)
Temperature Exposure – -60 °C to 325 °C
Humidity – 10 % to 95 % ± 5 %
Salt Spray / Corrosion
Thermal Shock – -60 °C to + 200 °C
UV Exposure - UVA or UVB
Vibration Test Swept-Sine; (20 to 7500) Hz; 100 force-pounds; 118g's max

Physical Properties Testing

Plastics / Polymer & Material Testing
Tensile testing
Elongation determination
Flexural Strength / Modulus
Stress / Strain using Compression and Tension
Brittleness Temperature
Relative Thermal Indexing (RTI) – To 325 °C
Flammability (Vertical, Horizontal Burn)
Melt Flow & other Rheology
Effect of Liquids, Chemical Resistance
Impact Strength (IZOD, Charpy Falling Weight)
Adhesion
Brittleness
Compression
Density / Specific Gravity
Hardness (Shore & Pencil)
Rheology & Melt Flow
Rubber Testing and Evaluation
Tubing Testing and Evaluation
Tear Strength
Water Absorption

UL Certified Testing

UL 94, Flammability of Plastics
UL 153, Portable Luminaries
UL 183, Manufactured Wiring Systems
UL 283, Air Fresheners and Deodorizers
UL 498, Attachment Plugs and Receptacles
UL 746A, Polymeric Materials – Short Term Property Evaluations
UL 746B, Polymeric Materials - Long Term Property Evaluations Relative Thermal Index (R.T.I)
UL 746C, Polymeric Materials – Use in Electrical Equipment Evaluations
UL 1286, Office Furnishings
UL 1363, Relocatable Power Taps
UL 962A, Furniture Power Distribution Units



Testing & Calibration Lab Cert. #0766.01, .02, .03, & .04