

Packaging Testing Laboratory

Rutgers Packaging Engineering Program



The Package Testing Laboratory is uniquely suited to support the academic program, university research projects and in addition provide a service for fee to local industry.

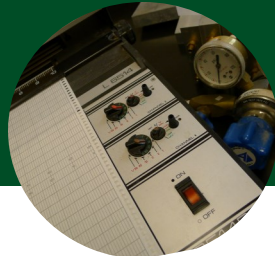
Rutgers The first and only university to offer packaging engineering within the School of Engineering, Founded in 1965, Rutgers holds title as the second oldest packaging program nationally.

Students from Packaging Engineering Program have a strong background in mathematics, chemistry, physics, and computers and interdisciplinary skill in materials, chemical, industrial, and mechanical engineering.

Packaging Laboratory As an integral part of the Rutgers Packaging Engineering Program for more than 20 years, our testing laboratory is approximately 3000 square feet of laboratory space and is decocted to package testing in the Center for Packaging Engineering and the School of Engineering A-building.

Over the years through procurement and donation, a great variety of general and specialized equipment has been accumulated to measure package dimensions, functionality and product compatibility. Much equipment is devoted to measuring conformance to industry or regulatory dictated performance including UPS, National Institute of Standards and Technology (NIST) and American Society of Testing and Materials (ASTM) standards. Traditionally, University laboratories are devoted to supporting the instructional program and serve as a resource for research at the undergraduate, graduate and faculty level. The Package Testing Laboratory is uniquely suited to support the academic program, university research projects and in addition provide a service for fee to local industry.

Testing Program In line with the University's strategy to form partnerships with local businesses, a Package Testing Commercial Service Program has been initiated to allow clients to sponsor packaging research projects and request fee based package testing procedures be conducted on their products. This program provides opportunities for student engagement in academic research projects and student employment to carry out package testing procedures. In addition this initiative will provide income for the program and allow for collection of anonymous data in a database for future research. Industry support for our Packaging Engineering Program has been well received. Currently, research projects have been sponsored for Senior Design and Special Projects classes. Packaging test has been performed for commercial clients on their packaging designs.



PACKAGE TESTING CATEGORIES

- ◇ **Distribution Testing**
 - ISTA, ASTM, UN Testing
 - DOD, IATA Testing
- ◇ **Decoration Testing**
 - Decoration Compatibility
 - Decoration Adhesion
 - Label Compatibility
- ◇ **Volume Testing**
 - Label Claim
 - Fill Volume
 - Headspace Determination
- ◇ **Testing of Physical Characteristics**
 - Transit Testing
 - Dimensional Analysis
 - Component Separation
 - Drop and Breakage
- ◇ **Product/Package Interaction Testing**
 - Seal and Weight Loss
 - Package Compatibility
 - Environmental Stress Cracking
- ◇ **Pump and Dispenser Testing**
 - Air Leakage
 - Priming
 - Delivery rate
- ◇ **Environmental Testing**
 - Transit Testing
 - Accelerated Aging
 - Humidity Testing

Opportunity Increasingly local industry needs over-flow support for their package testing laboratories. In addition, local consumer and drug companies are requesting their suppliers to supply package-testing information as a condition of business. It is not uncommon for these suppliers to subcontract this testing when they do not have the facilities or resources to perform this work

This presents opportunities for the Rutgers Package Testing Laboratories. By becoming certified to conduct university or client defined package test procedures, the Package Testing Laboratory can provide credible data and reports to clients in a confidential manner. Data collected can, with client agreement, be held anonymously in an expanding database to support research. This service will help support the Staff, Package Engineering Program and University providing the facilities.

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