### CBU Packaging Test Price List - ISTA & ASTM

**June 2019**

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Packaged-Products weighing 150 lb (68 kg) or Less</th>
<th>Packaged-Products weighing Over 150 lb (68 kg) (Max. 500 lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1A</td>
<td>1C</td>
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<tr>
<td>Non-simulation integrity test</td>
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<tr>
<td>Partial simulation integrity test</td>
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<tr>
<td>General simulation perf. test</td>
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<tr>
<td>Carrier performance test</td>
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<tr>
<td>Fixed displacement vibration</td>
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<tr>
<td>Random Vibration</td>
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<tr>
<td>Compression</td>
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<tr>
<td>Inclined Impact</td>
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<tr>
<td>Shock Testing</td>
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<tr>
<td>Atmospheric pre-conditioning</td>
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<tr>
<td>CBU Price for First Pkg</td>
<td>$525</td>
<td>$525</td>
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<tr>
<td>CBU Price each additional Pkg</td>
<td>$25</td>
<td>$25</td>
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**Notes:**
- CBU Packaging Lab is certified by ISTA to perform the above procedures as shown on ista website at: [http://www.ista.org/](http://www.ista.org/)
- Customer test package size and weight limits must be within CBU Package Lab test equipment maximum limits to receive services.
- Amazon test rate allows one re-test at no charge for an initial failed Amazon test. If a second re-test is required, the price for any additional re-test will be 50% of the original Amazon quoted rate.
- Healthcare Packaging Consortium member discounts will still apply for any re-test requirements of same original packaged product.
- If an environmental chamber is used as a separate added requirement, an additional $50 per day will be added to the test fee.
- Environmental chamber testing is an additional $50 per day for dedicated single use. Chamber use fee will be proportioned per customer when multiple customer test samples share the same profile start cycle.
- If recommendations are needed, add $100/hr to the price above
- R&D is available at $200/hr with a minimum of 5 hours
- For ASTM tests, rate will vary depending on appropriate Test Plan, call or email Larry Rutledge at (901) 827-6830 or lrutledge2@bellsouth.net
- For other tests not listed above, call Larry Rutledge at (901) 827-6830 or email him at lrutledge2@bellsouth.net
- More info about CBU Packaging can be found at: [www.cbu.edu/engineering/packaging](http://www.cbu.edu/engineering/packaging)
- ISTA 3E (Unitized Loads of Same Product weighing over 150 lbs.) added to menu on 8/22/2017.

*Additional package rates only apply to identical packaged products, primarily for "fragile" commodities when multiple samples are recommended.*
CBU Certified Packaging Lab Staff

**Larry Rutledge**, M.S.  
Lab Manager  
[lrutledge2@bellsouth.net](mailto:lrutledge2@bellsouth.net), (901) 827-6830

**Bob Moats**, CPLP Technician  
Engineering Lab Technician  
[rmoats@cbu.edu](mailto:rmoats@cbu.edu), (901) 321-3420

**Henry Rhodes**  
Engineering Lab Technician  
[hrhodes@cbu.edu](mailto:hrhodes@cbu.edu), (901) 321-3421

**Thomas Podesta**, CPLP Technician  
Engineering Lab Technician  
[tpodesta@cbu.edu](mailto:tpodesta@cbu.edu), (901) 321-4155

**Deliya Duckworth**, CPLP Technician  
Packaging Lab Technician  
[dduckwo1@cbu.edu](mailto:dduckwo1@cbu.edu)

**Alandria Waller**, CPLP Technician  
Packaging Lab Technician  
[awaller3@cbu.edu](mailto:awaller3@cbu.edu)

**Pong Malasri**, PhD, PE, CPLP Professional  
Packaging Department Chair  
[pong@cbu.edu](mailto:pong@cbu.edu), (901) 321-3419
In addition to the staff above, the following CBU packaging students have been trained by CBU lab staff above for ISTA CPLP Technician and Technologist Exams.

Congratulations to the following students for becoming an ISTA Certified Packaging Lab Technologist!

<table>
<thead>
<tr>
<th>Semester</th>
<th>CPLP Technologist (2nd Level of CPLP)</th>
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</thead>
<tbody>
<tr>
<td>Spring 2019</td>
<td>1. Jade Housewirth</td>
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<tr>
<td></td>
<td>2. Georgina Johns</td>
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</tbody>
</table>

Congratulations to the following students for becoming an ISTA Certified Packaging Lab Technician!

<table>
<thead>
<tr>
<th>Semester</th>
<th>CPLP Technician (1st Level of CPLP)</th>
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<tbody>
<tr>
<td>Spring 2014</td>
<td>1. Alex Othmani</td>
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<td>2. Caleb Smith</td>
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<td>3. Rebecca Wauford</td>
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<td>Summer 2014</td>
<td>4. Gabriela Gomez-Pedro</td>
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<td>5. Mallory Harvey</td>
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<td>Spring 2015</td>
<td>6. Alana Byrd</td>
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<td>7. Joseph Ferris</td>
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<td>8. Antoine Herve*</td>
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<td>9. Michael Kist</td>
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<td>10. Mark Wolfe</td>
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<td>11. Sebastian Polania</td>
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<td>12. Yuliana Luna</td>
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<td>13. Anne Youngblood</td>
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<tr>
<td>Summer 2015</td>
<td>14. Possawat Poonpurmsiri**</td>
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<td></td>
<td>15. Chonnavee Takkarnviroj**</td>
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<td></td>
<td>16. Poomtawan Tiapradit**</td>
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<tr>
<td>Spring 2016</td>
<td>17. April Bonner</td>
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<td></td>
<td>18. Charlotte Hare</td>
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<td>19. Jade Housewirth</td>
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<td>20. Georgina Johns</td>
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<td>21. Benjamin Loving</td>
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<td>22. Ngan Nyugen</td>
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<td>23. Stephen Russell</td>
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<td>24. Sammurelle Savage</td>
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<td>25. Juan Vazquez</td>
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<td>26. Clark Wadlington</td>
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<td>27. Zhihong Zheng</td>
</tr>
</tbody>
</table>
| Summer 2016 | 28. Bharath Bahudhoddi  
29. Abhishek Chava  
30. Yugesh Devabakthni  
31. Sesha Kota  
32. Jeremy Lloyd  
33. Radhika Suryadevara  
34. Erica Thomas |
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<tbody>
<tr>
<td>Fall 2016</td>
<td>35. Vinithraj Thota</td>
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</tbody>
</table>
| Spring 2017 | 36. Eduardo Aguilar  
37. Hope Campbell  
38. Eric DeFo Fondouop  
39. Hunter Howard  
40. Conrrado Jimenez  
41. Brianna Jordan  
42. James Alex Moses  
43. Scott Pala  
44. Britney Payne  
45. Yocelin Sanchez |
| Spring 2018 | 46. Vanessa Cervantes  
47. Jazzmyn Davenport  
48. Ian Dover  
49. Deliya Duckworth  
50. Daniel Gamez  
51. Henry Liu  
52. Michael Longo  
53. Saira Martinez  
54. Christopher Payne  
55. Racheal Pham  
56. Luis Rodriguez  
57. Yuritza Sanchez  
58. Salvador Saucedo  
59. Kevesha Snow  
60. Alandria Waller |
| Summer 2018 | 61. Thomas Podesta |
| Spring 2019 | 62. Alexander Brown  
63. Benjamin Knighton  
64. Carl Gody  
65. Cesar Samaniego-Mata  
66. Jean Melo Escoberdo  
67. Kyle Nicholson  
68. Zachery Tabor |
| 69. Guillermo Valverde Toledo  
70. Taylor Waddell |

* Exchange student from ECAM, France  
** Lab intern from Kasetsart University, Thailand
CBU Certified Packaging Lab

Lansmont PDT-56ED Drop Tester
(175-lb capacity)

L.A.B. AD-500 Drop Tester
(500-lb capacity)
Lansmont Model 1000 Vibration Test System
(75-lb capacity)

Lansmont ELVIS TS-122
(800-lb capacity)

Lansmont Shock Tester Model 65/81
(500-lb capacity)

L.A.B. Incline Impact Tester
(500-lb capacity)

CSZ Temperature & Humidity Chamber Model ZP-32
(-49F to +374F, 10% to 98% RH,
38”x38”x38” chamber size)

Envirotronics Altitude Chamber Model EA8-2-3-AC
(-90F to +350F, Up to 100000 ft altitude,
24”x24”x24” chamber size)

CBU Packaging – www.cbu.edu/packaging
Modified Gaynes Compression Table
(5000-lb capacity)

Bel-O-Vac Vacuum model BV-1815 Thermoformer
(15”X 2”X 2”, 8 to 12 parts/minute)

Edge Crush Tester

Mullen Tester

Kongsberg XL22 Sample Table

Hounsfield Materials Tester Model H5KS
(Load capacity is 5kN with a speed range from 0.01 to 1000 mm/min)
Dimension 3D Printer
(Maximum container dimensions are 8” x 8” x 10”)

MTS 810 Material Test System
(22000-lb capacity)

Fadal VMC-15 CNC Vertical Machine
(5-axis capability, max 7500 rpm, 20”x16”x16” work area, and 21 tool stations)

Romi M-17 CNE Lathe Machine

Toshiba EC45N Injection Molding Machine

Test-A-Pack Seal Strength Tester
Publications Authored/Co-Authored by Students
2011 – 2018 (Highlighted names are students)


*CBU Packaging – www.cbu.edu/packaging*


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