# CBU Packaging Test Price List - ISTA & ASTM

(September 2017)

## Test Description

<table>
<thead>
<tr>
<th>Packaged-Products weighing 150 lb (68 kg) or Less</th>
<th>1A</th>
<th>1C</th>
<th>1G</th>
<th>2A</th>
<th>3A</th>
<th>3F</th>
<th>6 FedEx A</th>
<th>Amazon SIOC</th>
<th>ASTM D4169 *</th>
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<tbody>
<tr>
<td>Non-simulation integrity test</td>
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<td>Carrier performance test</td>
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<td>Fixed displacement vibration</td>
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## Test Description

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<thead>
<tr>
<th>Packaged-Products weighing Over 150 lb (68 kg) (Max. 500 lbs.)</th>
<th>1B</th>
<th>1D</th>
<th>1E</th>
<th>1H</th>
<th>2B</th>
<th>2C</th>
<th>3B</th>
<th>3E</th>
<th>6 FedEx B</th>
<th>SamsClub</th>
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## CBU Price for First Pkg

- $525
- $525
- $425
- $875
- $780
- $525 - $875
- $525
- $780
- $525 - $875

## CBU Price each additional Pkg

- $25
- $25
- $25
- $25
- $150
- $25
- $25
- $150
- $150

### 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.
- Corrective package re-tests will be standard rate less 30% plus regular additional package run add-on.
- 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) 827-6380 or lrutledge2@bellsouth.net
- For other tests not listed above, call Larry Rutledge at (901) 827-6380 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.
CBU Certified Packaging Lab Staff

Larry Rutledge, M.S.
Lab Manager
lrutledge2@bellsouth.net, (901) 827-6830

Bob Moats, CPLP Technician
Engineering Lab Technician
rmoats@cbu.edu, (901) 321-3420

Henry Rhodes
Engineering Lab Technician
hrhodes@cbu.edu, (901) 321-3421

Thomas Podesta, CPLP Technician
Engineering Lab Technician
tpodesta@cbu.edu, (901) 321-4155

Georgina Johns, CPLP Technician
Packaging Lab Technician
gjohns@cbu.edu

Jade Housewirth, CPLP Technician
Packaging Lab Technician
jhousewi@cbu.edu

Deliya Duckworth, CPLP Technician
Packaging Lab Technician
dduckwo1@cbu.edu

Pong Malasri, PhD, PE, CPLP Professional
Packaging Department Chair
pong@cbu.edu, (901) 321-3419

CBU Packaging – www.cbu.edu/packaging
In addition to the staff above, the following CBU packaging students have been trained by CBU lab staff above for ISTA CPLP Technician Exam.

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

<table>
<thead>
<tr>
<th>Semester</th>
<th>CPLP Technician</th>
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</thead>
</table>
| Spring 2014    | 1. Alex Othmani  
2. Caleb Smith  
3. Rebecca Wauford |
| Summer 2014    | 4. Gabriela Gomez-Pedro  
5. Mallory Harvey |
| Spring 2015    | 6. Alana Byrd  
7. Joseph Ferris  
8. Antoine Herve*  
9. Michael Kist  
10. Mark Wolfe  
11. Sebastian Polania  
12. Yuliana Luna  
13. Anne Youngblood |
| Summer 2015    | 14. Possawat Poonpurmsiri**  
15. Chonnavee Takkarnviroj**  
16. Poomtawan Tiapradit** |
| Spring 2016    | 17. April Bonner  
18. Charlotte Hare  
19. Jade Housewirth  
20. Georgina Johns  
21. Benjamin Loving  
22. Ngan Nyugen  
23. Stephen Russell  
24. Sammurelle Savage  
25. Juan Vazquez  
26. Clark Wadlington  
27. Zhihong Zheng |
| 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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</table>
| Spring 2017    | 36. Eduardo Aguilar  
|                | 37. Hope Campbell   
|                | 38. Eric Defo Fondouop 
|                | 39. Hunter Howard   
|                | 40. Conrado 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 Sauceda|
|                | 59. Kevesha Snow    
|                | 60. Alandria Waller |
| Summer 2018    | 61. Thomas Podesta  |

*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)
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

CBU Packaging – www.cbu.edu/packaging
Publications Authored/Co-Authored by Students

(Highlighted names are students)


CBU Packaging – www.cbu.edu/packaging
Students & Their Major

Undergraduate Students:

1. John Archer, BS in Engineering Management (Packaging Concentration)
2. Phyo Aung, BS in Civil Engineering & Packaging Engineering Certificate
3. April Bonner, BS in Engineering Management (Packaging Concentration)
4. Alana Byrd, BS in Chemical Engineering & Packaging Minor
5. Taylor Dickinson, BS in Mechanical Engineering
6. Evan Edwards, BS in Engineering Management (Packaging Concentration)
7. Joseph Ferris, BS in Mechanical Engineering with Packaging Engineering Certificate
8. Ronald Fosso, BS in Computer Science
9. Luis Garcia, BS in Engineering Management (Packaging Concentration)
10. Ike Griffith, BS in Civil Engineering
11. Katie Godwin, BS in Civil Engineering
12. David Guerrero, BS in Civil Engineering & Packaging Minor
13. Charlotte Hare, BS in Chemical Engineering & Packaging Minor
14. Mallory Harvey, BS in Civil Engineering & Packaging Minor
15. Patrick Held, BS in Engineering Management (Packaging Concentration)
16. Antoine Herve, Exchange Student from ECAM, France
17. Jade Housewirth, BS in Engineering Management (Packaging Concentration)
18. Hunter Howard, BS in Engineering Management (Packaging Concentration)
20. Georgina Johns, BS in Engineering Management (Packaging Concentration)
21. Matthew Johnson, BS in Engineering Management (Packaging Concentration)
22. Rhett Jordan, BS in Chemical Engineering & Packaging Minor
23. Michael Kist, BS in Mechanical Engineering & Packaging Engineering Certificate
24. Olivia Koonce, BS in Mechanical Engineering
25. James Laney, BS in Civil Engineering
26. Anthony Lawrence, BS in Engineering Management (Packaging Concentration)
27. Benjamin Loving, BS in Engineering Management (Packaging Concentration)
28. Ebenee Malone, BS in Engineering Management (Packaging Concentration)
29. Griselda Matos Martinez, BS in Engineering Management with Packaging Minor
30. Nicholas McKee, BS in Electrical & Computer Engineering
31. Katy Moser, BS in Engineering Management (Packaging Concentration)
32. James Alex Moses, BS in Mechanical Engineering
33. Christopher Nguyen, BS in Engineering Management (Packaging Concentration)
34. Ngan Nguyen, BS in Mechanical Engineering & Packaging Minor
35. Alex Othmani, BS in Mechanical Engineering & Packaging Minor
36. Matthew Ohlwein, BS in Mechanical Engineering
37. Britney Payne, BS in Engineering Management (Packaging Concentration)
38. Christopher Payne, BS in Engineering Management (Packaging Concentration)
39. Sebastian Polania, BS in Mechanical Engineering & Packaging Minor
40. Possawat Poonpurmsiri, Packaging Intern from Kasetsart University, Thailand
41. Kalli Powers, BS in Mechanical Engineering & Packaging Engineering Certificate
42. Ashley Qureshi, BS in Chemical Engineering & Packaging Minor
43. Ana Rodriguez-Vizcaino, BS in Civil Engineering
44. Stephen Russell, BS in Chemical Engineering & Packaging Minor
45. Nathan Sampson, BS in Engineering Management (Packaging Concentration)
46. Yuliana Sanchez-Luna, BS in Civil Engineering & Packaging Minor
47. Wei (Alvin) Siow, BS in Chemical Engineering & Packaging Minor
48. Amanda Smith, BS in Engineering Management (Packaging Concentration)
49. Ryne Stevens, BS in Engineering Management (Packaging Concentration)
50. Chonnavee Tarkarnviroj, Packaging Intern from Kasetsart University, Thailand
51. Erica Thomas, BS in Mechanical Engineering
52. Poomtawan Tiapradit, Packaging Intern from Kasetsart University, Thailand
53. Samuel Tsai, BS in Chemical Engineering & Packaging Engineering Certificate
54. Juan Carlos Vazquez, BS in Mechanical Engineering & Packaging Minor
55. Matt Warren, BS in Mechanical Engineering & Packaging Engineering Certificate
56. Clark Wadlington, BS in Engineering Management (Packaging Concentration)
57. Rebecca Wauford, BS in Mechanical Engineering
58. Frederique Worthy, BS in Engineering Management (Packaging Concentration)
59. Anne Youngblood, BS in Mechanical Engineering & Packaging Minor
60. Zhihong Zheng, BS in Mechanical Engineering & Packaging Minor

Graduate Students:

1. Fahad Yousef Almushayqih, MS in Engineering Management
2. Badar Aloumi, MS in Engineering Management
3. Waleed Alnashwan, MS in Engineering Management
4. Sandeep Baroth, MS in Engineering Management
5. Hope Campbell, MS in Engineering Management
6. Abhishek Chava, MS in Engineering Management
7. Santosh Chennamaneni, MS in Engineering Management
8. Sudheer Cherukuri, MS in Engineering Management
10. Saketh, Dhanpal, MS in Engineering Management
11. Yugesh Kumar Devabakthi, MS in Engineering Management
12. Evan Edwards, MS in Engineering Management
13. Shyam Gurram, MS in Engineering Management
14. Leela Harshitta Tummala, MS in Engineering Management
15. Tanya Henderson, MS in Engineering Management
16. Abhinay Kanneti, MS in Engineering Management
17. Michael Kist, MS in Engineering Management
18. Divya Kondeti, MS in Engineering Management
19. Sesa Mounika Kota, MS in Engineering Management
20. Prasanth Rayapati, MS in Engineering Management
21. Nicole Reeder, MS in Engineering Management
22. Hemanth Rudraram, MS in Engineering Management
23. Siva Tharun Sabbarapu, MS in Engineering Management
24. Radhika Suryadevara, MS in Engineering Management
25. Vinithraj Thota, MS in Engineering Management
26. Harsha Vadlapatla, MS in Engineering Management
27. Mark Wolfe, MS in Engineering Management

Rev. May 9, 2018