

Subsequent Impact Acceleration Analysis of Air Pillow Study

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Abstract: A prior air-pillow simulation study indicated that air pillows have the potential to reduce maximum as well as subsequent impact accelerations of healthcare packaging in drop tests. In this previous work, only a single comparison between no-pillow and with-pillow cases was made to assess the subsequent impact accelerations. More comparisons are needed to make sure that this is not an isolated case. This paper includes a total of 12 such comparisons. It was found that air pillows reduce subsequent impact accelerations in 10 of these 12 cases.

Keywords: Plastic totes, distribution packaging, impact acceleration, drop test

References

- [1] Siripong Malasri, Robert Moats, John Archer, Paul Shiue, Ray Brown, and Larry Rutledge, "Plastic Tote Drop Impact Study," *Journal of Packaging*, Institute of Packaging Professionals, January 2012.

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