

Crash Testing of Sunshine Kids Accessory Products

Objective and Intent

To conduct crash testing using various auto and car seat accessory products and observe their performance during these tests with regard to their individual performance and durability, as well as any effects on the injury criteria measured.

Methodology and Test Protocol

No US federal regulations exist that govern the products that were tested. However, FMVSS 213 was utilized to determine their performance in their intended use circumstances. Crash tests were designed to utilize the various accessory products in their installed positions. The products tested were as follows:

- Snuggle Soft headrest for use in an infant carrier
- Soft Wrap strap covers for a CRS harness system
- Sit Rite foam noodle to level an infant carrier
- Grip It seat protector for use between a CRS and vehicle seat
- Super Mat seat protector for use between a CRS and vehicle seat
- Ultra Mat seat protector for use between a CRS and vehicle seat
- Side Rider side pouch attachment for a CRS
- Easy View rear view mirror for attachment to the vehicle headrest
- Cuddle Soft headrest for use within a CRS
- Stuff 'n Scuff storage pouch for attachment to the vehicle headrest
- Mighty-Tite® seat belt tightener
- Super Lock locking clip for seat belt webbing
- Lock Tite clip for harness straps
- Sure Fit seat belt positioner for child
- Stow 'n Go organizer for vehicle seat back
- Dry Seat for use within a CRS

Stuff 'n Scuff, Stow 'n Go and Side Rider were weighted with a 16 oz. water bottle for weight simulation purposes. Mighty-Tite was tested with an ATD weighted to 65 lbs.

Crash tests were conducted in accordance with the standard protocol specified in FMVSS 213. Measurements were recorded to validate the testing parameters and results.

In addition to the numerical measurements recorded and measured for these tests, visual observations were also conducted on all products to determine what effect, if any, their performance may have had on the seat belt webbing, CRS or the injury criteria for the dummies used in the tests.

Overall Conclusions

None of the products interfered with the performance of the CRS, the vehicle seat belt system, any other part of the vehicle seat or the dummies used in these tests.

All products remained securely affixed and in position during the tests and did not produce any detrimental effects on the seat belt webbing or CRS used in any of the tests. The products exhibited no breakage, structural degradation or any loss of ability to perform their intended functions after the tests.