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HIC test—Head Injury Criterion

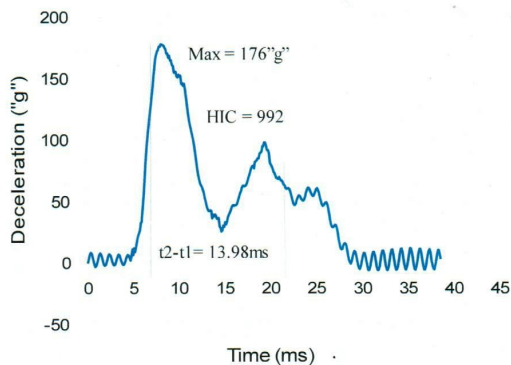
The HIC—Head Injury Criterion is a measure of the likelihood of head injury arising from an impact. The HIC can be used to assess safety related to vehicles, personal protective gear and sport equipment.

Normally the variable is derived from the acceleration/time history of an accelerometer mounted at the centre of gravity of a crash dummy's head, when the dummy is exposed to crash forces.

The VFPS (Vehicle Frontal Protection System) is mounted onto the test bed and then impacted with a child headform in three distinctive locations where the VFPS is the hardest and where it could possibly compose the creates injury on a child's head.



Test 2034 - Point A



Child head impact test get carried out according to AS 4876.1-2002. This means that the impact velocity of the headform impactor when striking the VFPS shall be within 8.3 +/- 0.2 mps (29.8 kph +/- 0.72 kph). The HIC shall not exceed 1500.

The test is repeated to EEVC 96/79/EC at 11.11 +/- 0.2 mps (40.0 kph +/- 0.72 kph). The HIC shall not exceed 1000 on the repeated test.

The deceleration and duration of the impact is recorded in a graph shown to the left for further processing.