

Durability and Repeatability of Headform Skin

- History of headform certification test results during 35 km/h impact testings -

* Durability and repeatability of headform skin are satisfactory.

* Certification test could be done at intervals of more than 20 impact testings.

Variation of the peak resultant acceleration in 12 certification tests using skin No. A was about 5% during 74 headform impact testing

Variation of the peak resultant acceleration in 5 certification tests using skin No. B was about 3% during 28 headform impact testings

Child headform (Skin A) (Certification test corridor of peak resultant acceleration : 245G ~ 300G)

	Drop Test 1 Peak Resultant (G)		Drop Test 2 Peak Resultant (G)		Drop Test 3 Peak Resultant (G)		Drop Test 4 Peak Resultant (G)		Drop Test 5 Peak Resultant (G)		Drop Test 6 Peak Resultant (G)	
Point	0	Headform impact test 5 times	265.7	Headform impact test 6 times	263.6	Headform impact test 7	277.0	Headform impact test 6	277.0	Headform impact test 7	276.6	
	120		264.4		262.7		267.7		277.8		266.4	272.7
	240		262.7		274.9		265.4		272.3		273.0	276.1
	Ave.		269.7		267.3		265.6		275.7		272.1	275.1
Test day	2003.10.3		2003.10.10		2003.10.17		2003.10.27		2003.10.30		2003.11.6	
Total impact test number	5		11		18		24		31			

	Drop Test 7 Peak Resultant (G)		Drop Test 8 Peak Resultant (G)		Drop Test 9 Peak Resultant (G)		Drop Test 10 Peak Resultant (G)		Drop Test 11 Peak Resultant (G)		Drop Test 12 Peak Resultant (G)
Headform impact test 5	277.1	Headform impact test 9	261.8	Headform impact test 6	278.4	Headform impact test 9	278.2	Headform impact test 7	263.6	Headform impact test 7	266.1
	273.1		260.2		266.9		265.4		264.0		265.5
	279.7		268.8		273.1		270.4		268.9		265.8
	276.6		263.6		272.8		271.3		265.5		265.8
	2003.11.20		2003.11.28		2003.12.4		2003.12.12		2003.12.19		2003.12.24
	36		45		51		60		67		74

Child headform (Skin B) (Certification test corridor of peak resultant acceleration : 245G ~ 300G)

	Drop Test 1 Peak Resultant (G)		Drop Test 2 Peak Resultant (G)		Drop Test 3 Peak Resultant (G)		Drop Test 4 Peak Resultant (G)		Drop Test 5 Peak Resultant (G)	
Point	0	Headform impact test 11	256.8	Headform impact test 5	258.4	Headform impact test 9	262.3	Headform impact test 3	259.4	
	120		261.3		263.5		258.8		264.1	262.4
	240		263.5		262.4		263.4		265.7	262.9
	Ave.		257.9		262.4		260.2		264.0	261.6
Test day	2003.11.6		2003.11.28		2003.12.4		2003.12.12		2003.12.19	
Total impact test number	11		16		25		28			