DIN EN 1621-3:2019-03 (E)

Motorcyclists' protective clothing against mechanical impact - Part 3: Motorcyclists' chest protectors - Requirements and test met hods

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Requirements 7
4.1 General 7
4.2 Innocuousness 7
4.3 Minimum dimensions of zones of protection 7
4.3.1 General 7
4.4 Impact Attenuation 8
4.5 Impact Distribution 8
4.6 Ergonomic requirements 8

5 Test equipment 9
5.1 Dropping apparatus 9
5.2 Bar Impactor 9
5.3 Hemispherical Impactor 9
5.4 Anvil 9
5.5 Force measurement instrumentation 10
5.6 Tolerance and uncertainty 10
5.7 Ergonomic Assessment 10
5.7.1 General 10
5.7.2 Tests 11

6 Test methods 11
6.1 Samples 11
6.2 Boundary and Feature marking 11
6.2.1 General 11
6.2.2 Full Chest protectors - Impact Attenuation Template 12
6.2.3 Full Chest Protectors - Impact Distribution Impact Points 12
6.2.4 Divided Chest protectors - Impact Attenuation Template 12
6.2.5 Divided Chest protectors - Impact Distribution Impact Points 12
6.3 Impact attenuation test 12
6.3.1 General 12
6.3.2 Impact sites 13
6.3.3 Test results 15
6.4 Impact distribution test 15
6.4.1 General 15
6.4.2 Impact Sites 15
6.4.3 Test Results 16
6.5 Sample preconditioning 16
6.5.1 Ambient impact test 16
6.5.2 Wet impact test 16
6.5.3 Optional high temperature impact test 16
6.5.4 Optional low temperature impact test 16

4.3.2 Levels of protection 8

6.6 Expression of Test Results 17
6.7 Test report 17

7 Marking 17

8 Information supplied by the manufacturer 18

Bibliography 20