

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

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

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

<b>4.3.2</b>	<b>Levels of protection .....</b>	<b>8</b>
<b>6.6</b>	<b>Expression of Test Results .....</b>	<b>17</b>
<b>6.7</b>	<b>Test report .....</b>	<b>17</b>
<b>7</b>	<b>Marking .....</b>	<b>17</b>
<b>8</b>	<b>Information supplied by the manufacturer .....</b>	<b>18</b>
	<b>Bibliography .....</b>	<b>20</b>