

This MotoCAP safety rating applies to:

| Brand: | Ixon |
|-----------------|------------------|
| Model: | Exhale HP |
| Туре: | Jacket - Textile |
| Date purchased: | 20 January 2020 |
| Sizes tested: | M and XL |
| Gender: | Μ |
| Style: | All Purpose |
| Test code: | J19T37 |

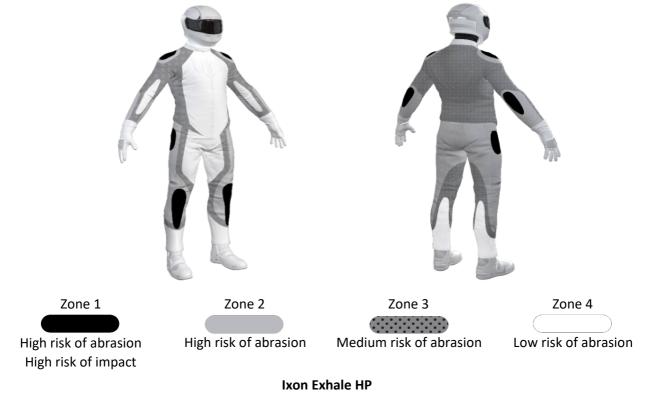
Test Results Summary:

| | Rating | Score |
|----------------------------|--------|-------|
| MotoCAP Protection Rating | * | 22.8 |
| Abrasion | 1/10 | 0.54 |
| Burst | 10/10 | 1396 |
| Impact | 3/10 | 20.5 |
| MotoCAP Comfort Rating | + | 0.059 |
| Moisture Vapour Resistance | | 309.8 |
| Thermal Resistance | | 0.303 |
| Water resistance | 1/10 | 55 |

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. There are vents in the chest and mesh panels in the shoulders to allow airflow movement through the garment. The thermal comfort rating is based on tests of the breathability of the garment when all vents are closed. The thermal comfort of this product may be better when the vents can be opened.

Jacket and Pants - Crash Impact Risk Zones

This diagram is a pictorial representation of the crash impact risk Zones.



Textile Jacket



Abrasion Resistance

The garment was tested for abrasion resistance in accordance with MotoCAP test protocols. The table below shows the test results for time to abrade through all layers of the materials. Calculated for each sample by Zone, type and area coverage of each material as a proportion of that Zone.

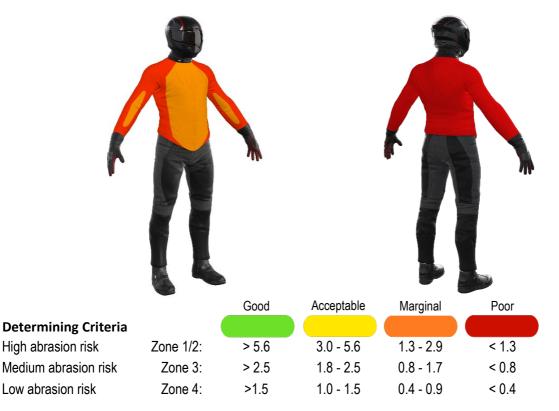
Details of materials used in garment:

Material A: Woven fabric shell with water resistant coated inner liner

| Zone | Coverage | Abrasion time for each test (seconds) | | | | | Average | |
|---|------------------|---------------------------------------|------|------|------|------|---------|-----------|
| | (%) | 1 | 2 | 3 | 4 | 5 | 6 | (seconds) |
| Zone 1 and 2 areas (High abrasion risk) | | | | | | | | |
| Material A | 100% | 0.66 | 0.40 | 0.65 | 0.62 | 0.41 | 0.52 | 0.54 P |
| Zone 3 area (| Medium abrasio | n risk) | | | | | | |
| Material A | 100% | 0.66 | 0.40 | 0.65 | 0.62 | 0.41 | 0.52 | 0.54 P |
| Zone 4 area (| Low abrasion ris | sk) | | | | | | |
| Material A | 100% | 0.66 | 0.40 | 0.65 | 0.62 | 0.41 | 0.52 | 0.54 M |

Abrasion times are capped at a maximum of 10.00s.

The diagram below is a visual indication of the likely abrasion performance of the materials in each zone calculated from the data in the table above. The colour coding is based on the worst performing material in each zone.



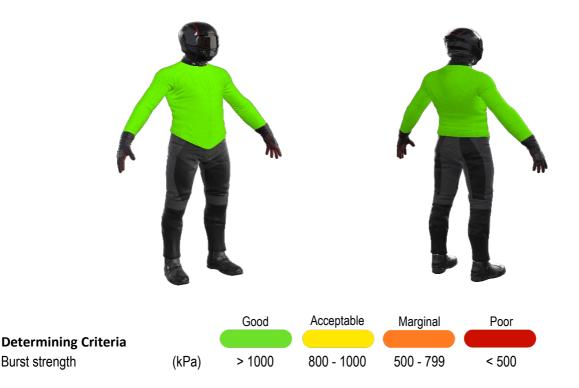


Burst Strength

The garment's burst strength was tested in accordance with MotoCAP test protocols. The table below shows the burst pressure in kilopascals (kPA) for each sample tested by Zone and the average result for each zone.

| Burst pressure (kPA) | | | | | | |
|----------------------|------|------|------|------|------|---------|
| Area | 1 | 2 | 3 | 4 | 5 | Average |
| Zones 1 & 2 | 1870 | 1941 | 1941 | 1688 | 992 | 1686 G |
| Zone EZ | 1172 | 1109 | 940 | 1239 | 1806 | 1253 G |
| Zones 3 & 4 | 820 | 1264 | 1067 | 853 | 1513 | 1103 G |

The diagram below illustrates the burst strength results in terms of the likely performance of the garment in an impact and is a pictorial representation of the data from the table above.



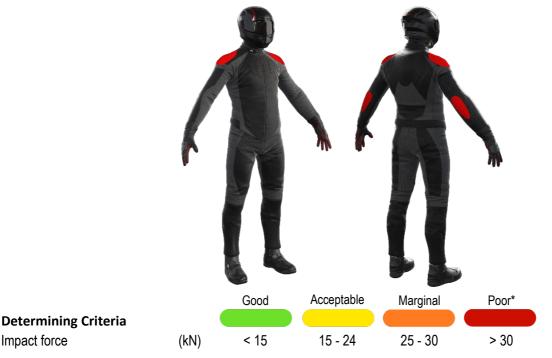


Impact Protection

The garment was tested for impact protection and coverage in accordance with MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

| Impact protector type | | Elbow | | | Shoulder | |
|----------------------------|------------|-------|------|----------|----------|------|
| Average force (kN) | | 27.9 | Μ | | 27.9 | Μ |
| Maximum force (kN) | | 31.6 | Ρ | | 31.6 | Ρ |
| Coverage of zone 1 area | | 85% | | | 110% | |
| Coverage of zone after dis | splacement | 60% | | | 70% | |
| Individual test results | | | | | | |
| Impact force (kN) | Elbow | | | Shoulder | | |
| Strike location | Α | В | С | Α | В | С |
| Impact Protector 1 | 26.6 | 28.6 | 31.6 | 26.6 | 28.6 | 31.6 |
| Impact Protector 2 | 26.8 | 27.6 | 27.7 | 26.8 | 27.6 | 27.7 |
| Impact Protector 3 | 24.9 | 28.4 | 29.1 | 24.9 | 28.4 | 29.1 |

The diagram below is a visual indication of the likely performance of each impact protector calculated from the data in the table above. The colour coding is based on the worst performing score for average or maximium force for each impact zone.



* Poor may also indicate that no impact protector, or impact protector pocket is present in the garment

Areas shaded black are not considered in the impact protection ratings.

Impact force



Thermal comfort

The garment was tested for thermal comfort following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

| | 1 | 2 | Average |
|--|-------------------|-------------------|----------------------|
| Moisture Vapour Resistance - R _{et} | 332.4 | 287.3 | 309.8 |
| (kPam²/W) | | | |
| | | | |
| | 1 | 2 | Average |
| Thermal Resistance - R _{ct} | 1 0.302 | 2 0.303 | Average 0.303 |

Water spray and rain resistance

This garment is advertised as water-resistant, and so has been tested for water spray and rain resistance according to the MotoCAP test protocols. The table below shows the water absorbed (ml) and the wetting proportion (%) of the garment and undergarments due to water absorption.

| | Water absorbe | ed by garment | Water absorbed by underwear | | |
|----------|---------------|----------------|-----------------------------|----------------|--|
| | Volume (ml) | Percentage (%) | Volume (ml) | Percentage (%) | |
| Jacket 1 | 289 | 23% | 192 | 69% | |
| Jacket 2 | 359 | 29% | 111 | 41% | |
| Average | 324 | 26% | 151 | 55% | |

Location of wetting:

Visible wetting to the cotton underwear was present over the chest on both garments tested.