





This MotoCAP safety rating applies to:

Brand: Ixon
Model: Crosstour
Type: Pants - Textile
Date purchased: 26 August 2019
Sizes tested: XL and 2XL

Gender: M

Style: All Purpose Test code: P19T08

Test Results Summary:

| | Rating | Score |
|----------------------------|--------|-------|
| MotoCAP Protection Rating | + | 9.9 |
| Abrasion | 1/10 | 0.04 |
| Burst | 9/10 | 969 |
| Impact | 1/10 | 0.0 |
| MotoCAP Comfort Rating | *** | 0.461 |
| Moisture Vapour Resistance | | 27.4 |
| Thermal Resistance | | 0.210 |
| Water resistance | 5/10 | 10.2 |

This garment is fitted with impact protectors for the knees. Pockets are provided at the hips for aftermarket impact protectors. There are vents in the upper legs 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. This garment has a removable water-resistant liner. The comfort rating above was achieved with the liner removed. When tested with the liner installed, the comfort rating reduced to half a star.

Jacket and Pants - Crash Impact Risk Zones

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

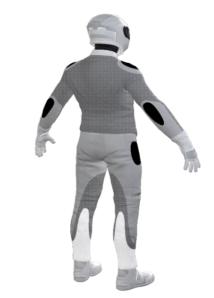


High risk of abrasion
High risk of impact

Zone 1

Zone 2

High risk of abrasion



Zone 3

Medium risk of abrasion

Zone 4

Low risk of abrasion

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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:

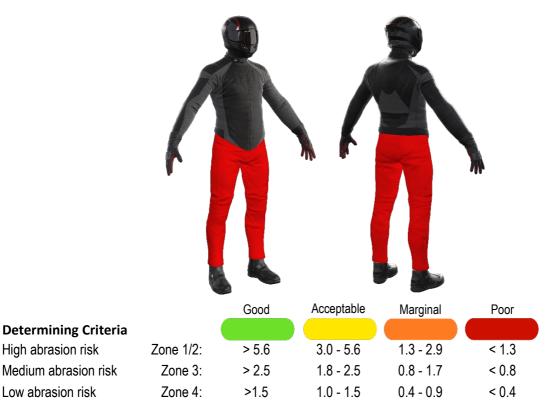
Material A: High density woven fabric shell with mesh inner liner

Material B: Woven fabric shell with mesh inner liner Material C: Stretch fabric shell with mesh inner liner

| Zone | Coverage | Abrasion time for each test (seconds) | | | | | Average | |
|----------------|------------------|---------------------------------------|------|------|------|------|---------|-----------|
| | (%) | 1 | 2 | 3 | 4 | 5 | 6 | (seconds) |
| Zone 1 and 2 | areas (High abra | asion risk) | | | | | | |
| Material A | 45% | 1.59 | 1.88 | 0.94 | 1.11 | 0.00 | 0.00 | 1.38 M |
| Material B | 55% | 0.32 | 0.31 | 0.40 | 0.40 | 0.44 | 0.44 | 0.38 P |
| Zone 3 area (M | Medium abrasio | n risk) | | | | | | |
| Material B | 90% | 0.32 | 0.31 | 0.40 | 0.40 | 0.44 | 0.44 | 0.38 P |
| Material C | 10% | 0.24 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 P |
| Zone 4 area (L | _ow abrasion ris | k) | | | | | | |
| Material B | 60% | 0.32 | 0.31 | 0.40 | 0.40 | 0.44 | 0.44 | 0.38 P |
| Material C | 40% | 0.24 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 P |

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.





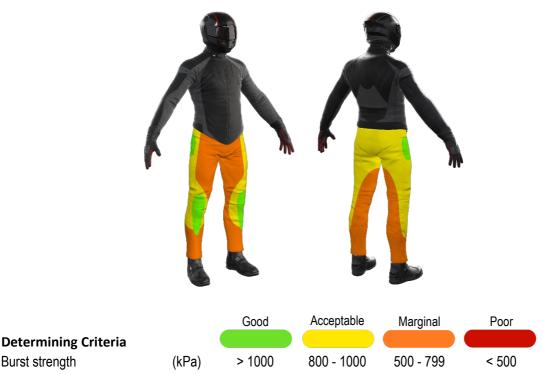
Burst Strength

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 | 982 | 1535 | 872 | 1546 | 1391 | 1265 G |
| Zone EZ | 841 | 715 | 656 | 815 | 1079 | 821 A |
| Zones 3 & 4 | 811 | 845 | 540 | 314 | 843 | 670 M |

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.



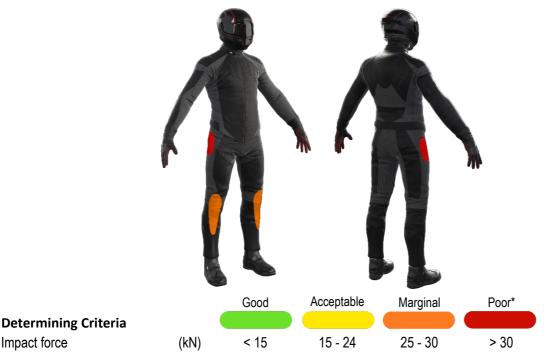


Impact Protection

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 | | Knee | | Hip | | |
|------------------------------|---------|------|-------------|-----|----------------|---------------|
| Average force (kN) | | 16.2 | A | | | P |
| Maximum force (kN) | | 26.2 | M | | | Р |
| Coverage of zone 1 area | | 80% | | 0% | | |
| Coverage of zone after displ | acement | 40% | | 0% | | |
| Individual test results | | | | | | |
| Impact force (kN) | Knee | | | Hip | No impact prot | ector present |
| Strike location | Α | В | С | Α | В | С |
| Impact Protector 1 | 11.8 | 14.2 | 19.8 | | | |
| Impact Protector 2 | 12.7 | 14.7 | 26.2 | | | |
| Impact Protector 3 | 10.8 | 13.4 | 22.1 | | | |

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.



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 - Ret | 27.8 | 27.1 | 27.4 |
| (kPam²/W) | | | |
| | 1 | 2 | Average |
| Thermal Resistance - R _{ct} | 0.213 | 0.208 | 0.210 |
| | · · - · · | 000 | • |

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 (%) | |
| Garment 1 | 328 | 29% | 20 | 7.5% | |
| Garment 2 | 347 | 31% | 32 | 12.9% | |
| Average | 337 | 30% | 26 | 10.2% | |

Location of wetting:

Visible wetting to the cotton underwear worn under the motorcycle water-resistant garment was present at the waistband of one of the garments and at the waistband and crotch of the other garment tested.