

Technical Specification  
**RAINWEAR**  
**6.2 Trousers**

# PRG 2.0 | Professional Rain Garments - Trousers

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## MAIN FEATURES:

- with Gore-Tex membrane;
- flap and zippered thigh pockets, fabric-fastened flaps;
- taped seams;
- colour Military Olive, UV/VIS /IRR;
- reinforcements on the knees;
- adjustable lower part of the leg, lock at the lower part of the leg;
- higher back part;
- removable braces

## ADDITIONAL FEATURES:

- 10.000 mm water column
- Waistband with belt closure
- Water-repellent YKK® zippers
- 2-Way leg zipper to hem, with wind flap
- 2 Large side pockets
- Stretch fabric at upper back part
- Reinforced inner leg area
- Width adjustable hem with Cord adjustment
- Optional adjustable suspenders
- Compression bag included
- Machine washable at 60 degrees
- Colours: Olive, Black, Camo



1 Material Details - Trousers		
1.1 Main Material Composition		
<b>Product</b>	Tussac 3 layer	
<b>Brand/Product Class</b>	GORE-TEX® Fabric	
<b>Fabric Material</b>	100% Polyamide	
<b>Fabric Construction</b>	Rip stop	
<b>Functional Layer</b>	Bicomponent based on ePTFE	
<b>Colour</b>	Olive / Black / Camouflage	
<b>Weight [g/m]<sup>2</sup></b>	115 ± 10	ISO 3801, method 5 / EN 12127
<b>Ret [m<sup>2</sup> Pa/W]</b>	≤ 7	EN ISO 11092
<b>Resistance to Water Penetration [kPa]</b>	≥ 100	ISO 811
<b>Tensile Strength Warp / Weft [N]</b>	≥ 600 / 400	EN ISO 1421, method 1
<b>Tear Strength Warp / Weft [N]</b>	≥ 25/22	EN ISO 4674-1 A
<b>Abrasion at 12 kPa</b>	≥ 50.000	ISO 12947-2
<b>Dimensional Change in Washing and Drying [%]</b>	≤ 3	EN ISO 5077, EN ISO 6330 6N, F
<b>Colorfastness to washing 40°C</b>	ISO105C06	min. 4
<b>Colorfastness to Water</b>	ISO105E01	min. 4
<b>Colorfastness to Perspiration (Alk. / Acid)</b>	ISO105E04	min. 4
<b>Colorfastness Dry Cleaning</b>	ISO105D01	min. 4
<b>Colorfastness to rubbing</b>	ISO105X12	min. 4
<b>Finishing</b>	Hydrophobic: 5 Oleophobic: 5	ISO 4920 EN ISO 14419



Care Labelling	     GIN Code: LXAADZZ
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1.2 Tape	
1.2.1 Material Composition	
Article	Tape 3 L 4MIL 22MM
Material	Polyamid 6.6
Substrate (Film)	Bicomponent Polyetrafluoroethylene, coated and printed (TRIPLE X pattern) with Polyurethane
Fusion Adhesive	Based on Polyurethane
Weight per Unit Area of Tape	206 ± 10 g/m <sup>2</sup>
Length of Tape Roll	200 + 5 m
Splices per Roll	≤ 5 (red marked)

1.3 Stretch Insert at Waist		
Product	Viper 3 layer	
Brand/Product Class	GORE-TEX® Fabric	
Face Fabric Material	85% Polyamide, 15% Elastane	
Backing Fabric Material	69% Polyamide, 31% Elastane	
Fabric Construction	Rip stop	
Functional Layer	Bicomponent based on ePTFE	
Weight [g/m] <sup>2</sup>	275 ± 50	ISO 3801, method 5 / EN 12127
Resistance to Water Penetration [kPa]	≥ 100	ISO 811
Dimensional Change in Washing and Drying [%]	≤ 5	EN ISO 5077, EN ISO 6330 6N, F



1.4 Reinforcement Material		
<b>Product</b>	Cordura	
<b>Weight [g/m]<sup>2</sup></b>	240 ± 10	ISO 3801, method 5 / EN 12127
<b>Resistance to Water Penetration [kPa]</b>	≥ 100	ISO 811
<b>Tensile Strength Warp / Weft [N]</b>	≥ 1500 / 1000	EN ISO 1421, method 1
<b>Tear Strength Warp / Weft [N]</b>	≥ 80 / 70	ISO 4674

1.5 Zipper	All zippers according to DIN EN 3418	
1.5.1 Leg Zipper	Water-repellent (e.g., 2 way leg zipper)	
Type	Plastic zipfastener, endless chain	
Style	Two-way separating zipper	
Mechanism	Auto lock	
1.5.1.1 Material composition		
Chain width	6,50 mm	
Chain thickness	2,70 mm	
Slider	Stainless steel, black nickel, nickelfree	
Tape	Polyester, polyurethan laminated	
Elements	Polyester	
Colour	Olive, black	
1.5.2 Front Zipper		
Modell	Plastic zipfastener, endless chain	
Style	Closed-end zipper	
Mechanism	Auto lock	
1.5.2.1 Material composition		
Chain width	6,00 mm	
Chain thickness	2,65 mm	
Slider	Stainless steel, black nickel, nickelfree	



Tape	Polyester
Elements	Polyester
Bottom stops	Brass
Top stops	Brass
Color	Olive, black

#### 1.6 Hook and Loop Fastener (Velcro)

Material	100% Polyamide
Color	Olive, black

#### 1.6 Cord

Material	100 % Polyester
Diameter	3 ±0,5mm

#### 1.7 Cord-Stopper

Modell	1-hole-cord stopper with two slots, ribs on plunger for additional grip; hole for self cleaning of snow and dirt
Material	POM or Polyamid
Colour	Olive, black

#### 1.8 Cord-Clip

Material	PA 6.6 or POM
Color	Black

#### 1.9 Interlining

Material	Viscose / Polyester
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#### 1.10 Button

Type	Two-slit button
Material	Polyester



Size	Approx. 48" = 30 mm
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2 Measurements and Weights					
2.1 Trousers	S	M	L	XL	XXL
Weight in g	660	700	720	810	850
Finished Measurements in cm					
1/2 waist girth	40	44	48	52	56
1/2 waist girth (stretched)	46	50	54	58	62
1/2 hip girth	52	56	60	64	68
Length. of side seam (excl waistband)	99	101	103	105	107
Inside leg length	84	85	86	87	88
½ Hem width	24	25	26	27	28
Zip length side seam	99	101	103	105	107
Zip length - front	27	28	28	29	29

**Note:** A tolerance up to  $\pm 3\%$  is applicable for all measurements  
A tolerance up to  $\pm 10\%$  is applicable for all weights

3 Compression Bag		
3.1 Main Material Composition (textile)		
Parameter	Test method	Value
Material		100% Polyamid 6 or 6.6
Weight		$\leq 160 \text{ g/m}^2 \pm 10\%$
Construction		Plain weave
Shrinkage wash 40°C warp	ISO 5077 2007	-2,00 %
Shrinkage wash 40°C weft	ISO 5077 2007	-2,00 %
Tensile strength warp	ISO 13934-1	$\geq 700 \text{ N}$
Tensile strength weft	ISO 13934-1	$\geq 500 \text{ N}$
Tear resistance warp	ISO13937-1	$\geq 30 \text{ N}$
Tear resistance weft	ISO13937-1	$\geq 30 \text{ N}$



Spraytest	ISO 4920	100 ISO 5
Watercolumn	ISO811	≥ 5000mm
Colorfastness to washing 40°C	ISO105C06	min. 4
Colorfastness to dry cleaning	ISO105X05	min. 4
Colorfastness to water	ISO105E01	min. 3
Colorfastness to rubbing dry	ISO105X12	min. 4
Colorfastness to rubbing wet	ISO105X12	min. 3

### 3.2 Cord

Material	100 % Polyester
Diameter	3 ±0,2 mm
Stretch	100%
Tensile strength	30% elongation 5±1N 100% elongation 24±1N
Weight	0,650 kg/100m ±10%

### 3.3 Cord-Stopper

Modell	1-hole-cord-stopper with two slits; ribs on plunger for additional grip; hole for self cleaning of snow and dirt,
Material	Alcatel
Weight	ca. 2.3 g
Size	ca. 4.5 mm (cord ø)
Color	Olive, black

### 3.4 Ladder tape

Material	94% Polyester; 6% Nylon
Width	20 mm
Color	Olive, black





3.5 Ladderlock	
Material	ACETAL
Strength data (lowest average expected)	65 kg
Color	Black

3.6 Measurements and Weights (Compression Bag)	
Bottom	12 cm
Height	25 cm
Weight	50 g

**Note:** A tolerance up to  $\pm 3\%$  is applicable for all measurements  
A tolerance up to  $\pm 10\%$  is applicable for all weights

