

DATA SHEET: KNITTED & POLAR HAT BUFF®

GENERAL DESCRIPTION

- Knitted hat with an inner band of polar fleece which provides an extra warmth from cold.
- A product to be protected from cold or extreme cold environments maintaining body temperature.

KEY FEATURES



MULTIFUNCTIONAL



KNITTED & POLAR FLEECE



100% ACRYLIC

DIMENSIONS



FABRIC COMPOSITION

Material:	
ACRYLIC	100%
Structure:	
Weft Knitted with tucks on the top	

PACKAGING



Properties: **KNITTED**

Mass per unit area:

UNE-EN 12127:1998

333 g/m² ±5%

Air permeability:

UNE-EN ISO 9237:1996

782,06 mm/s ±10%

Thermal Resistance (RCT):

ISO 11092: 2014

0,0716 m²K/W ±10%

Water Vapour Resistance (RET):

ISO 11092: 2014

7,8 m²Pa/W ±10%

Determination of breaking Strength and elongation:

UNE-EN ISO 13934-1:2013

Average Load (N)

Lengthwise 400 ±10%

Crosswise 670 ±10%

Average Elongation (%)

Lengthwise 185 ±10%

Crosswise 138 ±10%

Determination of dimensional change in domestic washing and drying:

UNE-EN ISO 5077:2008 + ERRATUM:2008

Washing procedure 3M (Ta=40 ±3°C) according to ISO 6330:2012

Lengthwise ≤1,5 %

Crosswise ≤-1%

Resistance to pilling (Cara externa) (martindale, 2000 cycles):

UNE-EN ISO12945-2:2001

4

Scale from 1 to 5 in which 1 is "Very severe pilling" and 5 is "No pilling".

Resistance to pilling (Cara interna) (martindale, 2000 cycles):

UNE-EN ISO12945-2:2001

4

Scale from 1 to 5 in which 1 is "Very severe pilling" and 5 is "No pilling".

Determination of the abrasion resistance of fabrics:

UNE-EN ISO 12947-2:1999/AC:2006

Testing pressure: 9kPa

35000 cycles

Until the first yarn broken

Fastness rates:

Colour fastness to domestic and commercial laundering

UNE-EN ISO 105-C06:2010

4-5

Colour fastness to perspiration (Alkaline & Acid):

UNE-EN ISO 105-E04:2013

4-5

Colour fastness to rubbing (Dry & Wet)

UNE-EN ISO 105-X12:2003

4-5

Colour fastness to sea water

UNE-EN ISO 105-E02:1996

4-5

(Fastness rates in a scale from 1 to 5 in which 1 is "Poor behaviour" and 5 is "Good behaviour".)

Colour fastness to artificial light

UNE-EN ISO 105-B02:2014 method 2

4-5

(Fastness to artificial light rates in a scale from 1 to 8 in which 1 is "Very poor" and 8 is "Excelent".)

Properties: **POLAR FLEECE**

Mass per unit area:

UNE-EN 12127:1998

200 g/m² ±5%

Air permeability:

UNE-EN ISO 9237:1996

651,8 mm/s ±15,93%

Thermal Resistance (RCT):

ISO 11092: 2014

0,0651 m²K/W ±10%

Water Vapour Resistance (RET):

ISO 11092: 2014

6,73 m²Pa/W ±10%

Determination of breaking Strength and elongation:

UNE-EN ISO 13934-1:2013

Average Load (N)

Lengthwise 340 ±10%

Crosswise 160 ±10%

Average Elongation (%)

Lengthwise 110 ±10%

Crosswise 219 ±10%

Determination of dimensional change in domestic washing and drying:

UNE-EN ISO 5077:2008 + ERRATUM:2008

Washing procedure 3M (Ta=40 ±3°C) according to ISO 6330:2012

Lengthwise -0,5%

Crosswise +0,5%

Resistance to pilling (martindale, 2000 cycles):

UNE-EN ISO12945-2:2001

4-5

Scale from 1 to 5 in which 1 is "Very severe pilling" and 5 is "No pilling".

Determination of the abrasion resistance of fabrics:

UNE-EN ISO 12947-2:1999/AC:2006

Testing pressure: 9kPa

min. <100.000 cycles

Until the first yarn broken

Fastness rates:

Colour fastness to domestic and commercial laundering

UNE-EN ISO 105-C06:2010

4-5

Colour fastness to perspiration (Alkaline & Acid):

UNE-EN ISO 105-E04:2013

4-5

Colour fastness to rubbing (Dry & Wet)

UNE-EN ISO 105-X12:2003

4-5

Colour fastness to sea water

UNE-EN ISO 105-E02:1996

4-5

(Fastness rates in a scale from 1 to 5 in which 1 is "Poor behaviour" and 5 is "Good behaviour".)

Colour fastness to artificial light

UNE-EN ISO 105-B02:2014 method 2

4

(Fastness to artifical light rates in a scale from 1 to 8 in which 1 is "Very poor" and 8 is "Excelent".)