

**Vescom bv  
Dhr. Ron Verlouw  
Postbus 70  
5753 AV DEURNE  
Nederland**



<b>Your notice of</b>	<b>Your reference</b>	<b>Date</b>
07-10-2014	SO-1115672	07-07-2015

## **Analysis Report 14.04770.04**

Required tests :

**ISO 13936-2 (2004)  
ISO 105-X12 (2001)**

**Determination of the seam slippage at a specified force.  
Determination of the colour fastness to rubbing**

<b>Identification number</b>	<b>Information given by the client</b>	<b>Date of receipt</b>
T1416153	Namal 7043	07-10-2014

Gina Créelle

Order responsible

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The results of the analysis cover the received samples. Centexbel is not responsible for the representativeness of the samples. In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.

**VAT BE 0459.218.289**

CENTEXBEL-GENT  
Technologiepark 7  
BE-9052 Zwijnaarde

Tel. + 32 9 220 41 51 • Fax + 32 9 220 49 55  
gent@centexbel.be

**Fin. Acc. 210-0472965-45**

**IBAN BE44 2100 4729 6545**

CENTEXBEL-VERVIERS  
Avenue du Parc 38  
BE-4650 Herve (Chaineux)

Tel. + 32 87 32 24 30 Fax + 32 87 34 05 18  
chaineux@centexbel.be

**Reference: T1416153 - Namal 7043**

**Determination of the seam slippage at a specified force.**

Date of ending the test	29-10-2014
Standard used	ISO 13936-2 (2004)
Product standard	EN 14465 (2003) + A1 (2006)
Deviation from the standard	-
Conditioning	20°C, relative humidity 65%
Stitching type	74 tex (PES) and a needle size N° 110 and 32 stitches per 100 mm
Apparatus	Instron, type CRE, class 0,5
Cell	1 kN
Rate	50 mm/min
Number of test specimens	5 (Warp direction (weft//seam)) 5 (Weft direction (warp//seam))

Seam opening after reducing of the strength of 180 N to 5 N (mm)

	Warp direction (weft//seam)	Weft direction (warp//seam)
	Seam opening after reduction at 5 N (mm)	Seam opening after reduction at 5 N (mm)
#1	1.0	1.5
#2	1.5	1.5
#3	1.5	1.0
#4	1.5	1.5
#5	1.5	1.5
Average	1.5 mm	1.5 mm

During the test executed in the direction of the warp, the weft threads are gliding, during the test executed in the direction of the weft, the warp threads are gliding

**Reference: T1416153 - Namal 7043**

**Determination of the colour fastness to rubbing**

Date of ending the test 29-10-2014  
Standard used ISO 105-X12 (2001)  
Product standard EN 14465 (2003) + A1 (2006)

Deviation from the standard -  
Conditioning 20°C, relative humidity 65%  
Apparatus Crockmeter  
Applied finger Ø 16 mm  
Pressure on test specimen 9 N  
Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

Numerical rating

	Warp direction	Weft direction
Dry	4-5	4-5
Wet	4-5	4-5