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Your notice of	Your reference	Date
12-05-2014		23-05-2014

Analysis Report 14.02373.01

Required tests :

ISO 12947-2 (1998)/cor.1 (2002)	Determination of the abrasion resistance - Martindale
ISO 105-X12 (2001)	Determination of the colour fastness to rubbing
ISO 12945-2 (2000)	Determination of the resistance to pilling - Martindale
EN ISO 105-B02 (1999) + Am (2002)	Determination of the colour fastness to light

Identification number	Information given by the client	Date of receipt
T1408187	Razzle Dazzle ZS904 954 Duo	12-05-2014

Filip Ghekiere

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

Fin. Acc. 210-0472965-45

IBAN BE44 2100 4729 6545

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Reference: T1408187 - Razzle Dazzle ZS904 954 Duo

Determination of the abrasion resistance - Martindale

Date of ending the test 19-05-2014
 Standard used ISO 12947-2 (1998)/cor.1 (2002)
 Deviation from the standard -
 Conditioning 20°C, relative humidity 65%
 Apparatus Martindale Wear and Abrasion Tester
 Pressure on test specimen 12 kPa
 Abradant Crossbred worsted spun, plain woven fabric
 Type of the felt Woven felt
 Number of test specimens 4

Test end point Knitted - 1 loop completely damaged

Specimen	Number of cycles	Final result
#1	100 000	≥ 100 000
#2	100 000	≥ 100 000
#3	100 000	≥ 100 000
#4	100 000	≥ 100 000
Average	100 000	≥ 100 000

Annex 1

Tested specimens enclosed

Reference: T1408187 - Razzle Dazzle ZS904 954 Duo

Determination of the colour fastness to rubbing

Date of ending the test 23-05-2014
Standard used ISO 105-X12 (2001)
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

	Wales direction	Course direction
Dry	4-5	4-5
Wet	4-5	4-5

Reference: T1408187 - Razzle Dazzle ZS904 954 Duo

Determination of the resistance to pilling - Martindale

Date of ending the test 22-05-2014
 Standard used ISO 12945-2 (2000)
 Deviation from the standard -
 Conditioning 20°C, relative humidity 65%
 Apparatus Martindale Wear and Abrasion Tester
 Pressure on test specimen 6,5 cN/cm²
 Abradant Original material
 Number of test specimens 3
 Number of assessors 2

	Assessment at ... number of cycles			
	500	1000	2000	5000
#1	4-5	4-5	4-5	4
#2	4-5	4-5	4-5	4
#3	4-5	4-5	4-5	4

The final assessment is based on
Annex 2

Pilling
Pilling samples in attachment

Reference: T1408187 - Razzle Dazzle ZS904 954 Duo

Determination of the colour fastness to light

Date of ending the test	23-05-2014
Standard used	EN ISO 105-B02 (1999) + Am (2002)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220+ Atlas
Exposure	Constant
Irradiance	42 W/m ² @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating Blue scale grade 6

Annex 3 Exposed sample in annex