

TEST REPORT

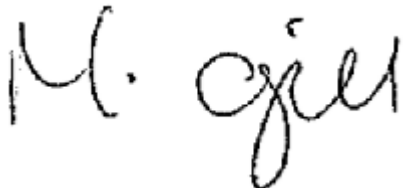
Report Ref.	LEI19080226A Original		
Date Received	02/08/2019	Date Issued	08/08/2019

Company Name & Address	Cell Phone Radiation Limited The Old Chapel Camborne, TR14 ONP GBR
Contact Name	Glynn Hughes

Colour	Black & silver
Batch Number	Samples x 2
Retailer	General

Test	Method	Sample	Result
^Azo Dye Analysis BS EN 14362 - 1 sample, textile	BS EN 14362-1:2017 For textile material	Bloccsilver + Flexibloc black	Pass
^Azo Dye Analysis BS EN 14362 - 1 sample, textile	BS EN 14362-1:2017 For textile material	Bloccsilver + Flexibloc black	Pass
^Fibre Composition	EU Regulation No 1007/2011	Bloccsilver	No Requirement
Fibre Composition	EU Regulation No 1007/2011	Flexibloc black	No Requirement

Tests marked (^) in this report have been performed by an approved 3rd party laboratory.
Tests marked (*) in this report are not included in our UKAS scope of accreditation.



Matthew Gill
(Specialist Team Leader)

**^Azo Dye Analysis BS EN 14362 - 1 sample, textile BS EN 14362-1:2017 For textile material
Sample: Blocsilver + Flexibloc black**

Detection of Amines Derived from Azocolourants and Azodyes	Result	Requirement
Test Method: BS EN 14362-1:2017		Requirement
By Gas Chromatographic - Mass Spectrometric and High Performance Liquid Chromatographic analysis		<30ppm
Sample 1: Beige Knitted Panel (with extraction)		
		Sample 1
FORBIDDEN AMINE	CAS NO	RESULT (PPM)
4-AMINOBIPHENYL	92-67-1	ND
BENZIDINE	92-87-5	ND
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2	ND
2-NAPHTHYLAMINE	91-59-8	ND
*O-AMINOAZOTOLUENE	97-56-3	ND
*2-AMINO-4-NITROTOLUENE	99-55-8	ND
P-CHLOROANILINE	106-47-8	ND
2,4-DIAMINOANISOLE	615-05-4	ND
4,4'-DIAMINOBIPHENYLMETHANE	101-77-9	ND
3,3'-DICHLOROBENZIDINE	91-94-1	ND
3,3'-DIMETHOXYBENZIDINE	119-90-4	ND
3,3'-DIMETHYLBENZIDINE	119-93-7	ND
3,3'-DIMETHYL-4,4'DIAMINOBIPHENYLMETHANE	838-88-0	ND
P-CRESIDINE	120-71-8	ND
4,4'-METHYLENE-BIS(2 CHLOROANILINE)	101-14-4	ND
4,4'-OXYDIANILINE	101-80-4	ND
4,4'-THIODIANILINE	139-65-1	ND
O-TOLUIDINE	95-53-4	ND
2,4-TOLUENEDIAMINE	95-80-7	ND
2,4,5-TRIMETHYLANILINE	137-17-7	ND
O-ANISIDINE	90-04-0	ND
**P-AMINOAZOBENZENE	60-09-3	ND
2,4 XYLIDINE	95-68-1	ND
2,6 XYLIDINE	87-62-7	ND
ppm:part per million (mg/kg) Detection Limit: 5ppm ND: Not Detected		
Note:		

1) The amines o-amino-azotoluene and 2-amino-4 nitrotoluene are detected by its splitted product o-toluidine and 2,4-toluenediamine		
2) Azo Colourants that are able to form 4-aminoazobenzene generate under the condition of this method aliline and 1,4-phenylendiamine. The presence of these colourants can not be ascertained without additional information.		
3) According to EN 14362-1: 2012, separate test is suggested to ascertain the compliance for result of mixed test in the range between 5ppm and 30ppm.		
4) AZO colourants content requirement in annex XVII item 43 of the REACH regulation (EC) NO: 1907/2006 & amendment No. 552/2009 and 126/2013 (formerly known as directive 2002/61/EC)		
5) According to the official method EN 14362-1:2012, if 4-Aminodiphenyl, 2-Naphtylamine or 2,4-Diaminoanisoie is found exceeding requirement, the use of forbidden Azo colourants cannot be ascertained without additional information.		

Overall Test Result: Pass

Uncertainty: ±9%

**^Azo Dye Analysis BS EN 14362 - 1 sample, textile BS EN 14362-1:2017 For textile material
Sample: Blocsilver + Flexibloc black**

Detection of Amines Derived from Azocolourants and Azodyes	Result	Requirement
Test Method: BS EN 14362-1:2017		Requirement
By Gas Chromatographic - Mass Spectrometric and High Performance Liquid Chromatographic analysis		<30ppm
Sample 2: Black MelangeKnitted Panel (combined method)		
		Sample 1
FORBIDDEN AMINE	CAS NO	RESULT (PPM)
4-AMINOBIPHENYL	92-67-1	ND
BENZIDINE	92-87-5	ND
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2	ND
2-NAPHTHYLAMINE	91-59-8	ND
*O-AMINOAZOTOLUENE	97-56-3	ND
*2-AMINO-4-NITROTOLUENE	99-55-8	ND
P-CHLOROANILINE	106-47-8	ND
2,4-DIAMINOANISOLE	615-05-4	ND
4,4'-DIAMINOBIPHENYLMETHANE	101-77-9	ND

3,3'-DICHLOROBENZIDINE	91-94-1	ND
3,3'-DIMETHOXYBENZIDINE	119-90-4	ND
3,3'-DIMETHYLBENZIDINE	119-93-7	ND
3,3'-DIMETHYL-4,4'DIAMINOBIPHENYLMETHANE	838-88-0	ND
P-CRESIDINE	120-71-8	ND
4,4'-METHYLENE-BIS(2 CHLOROANILINE)	101-14-4	ND
4,4'-OXYDIANILINE	101-80-4	ND
4,4'-THIODIANILINE	139-65-1	ND
O-TOLUIDINE	95-53-4	ND
2,4-TOLUENEDIAMINE	95-80-7	ND
2,4,5-TRIMETHYLANILINE	137-17-7	ND
O-ANISIDINE	90-04-0	ND
**P-AMINOAZOBENZENE	60-09-3	ND
2,4 XYLIDINE	95-68-1	ND
2,6 XYLIDINE	87-62-7	ND
ppm:part per million (mg/kg) Detection Limit: 5ppm ND: Not Detected		
Note:		
1) The amines o-amino-azotoluene and 2-amino-4 nitrotoluene are detected by its splitted product o-toluidine and 2,4-toluenediamine		
2) Azo Colourants that are able to form 4-aminoazobenzene generate under the condition of this method aliline and 1,4-phenyldiamine. The presence of these colourants can not be ascertained without additional information.		
3) According to EN 14362-1: 2012, separate test is suggested to ascertain the compliance for result of mixed test in the range between 5ppm and 30ppm.		
4) AZO colourants content requirement in annex XVII item 43 of the REACH regulation (EC) NO: 1907/2006 & amendment No. 552/2009 and 126/2013 (formerly known as directive 2002/61/EC)		
5) According to the official method EN 14362-1:2012, if 4-Aminodiphenyl, 2-Naphtylamine or 2,4-Diaminoanisoole is found exceeding requirement, the use of forbidden Azo colourants cannot be ascertained without additional information.		

Overall Test Result: Pass
Uncertainty: ±9%

^Fibre Composition EU Regulation No 1007/2011

Sample: Blocsilver

Fibre	Percentage
Polyimide	100 %
Test conducted using light microscope techniques	

Overall Test Result: No Requirement
Uncertainty: $\pm 0\%$

Fibre Composition EU Regulation No 1007/2011

Sample: Flexibloc black

Fibre	Percentage
Polyimide	61.8 %
Cotton	35.5 %
Elastane	2.7 %
Results based on clean, dry mass with allowances for moisture and other matter.	
The percentage of each fibre should be accurate to 3% or better.	

Overall Test Result: No Requirement
Uncertainty: $\pm 1\%$

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The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately 95 %. Any Pass/Fail statements do not take into account the Measurement of Uncertainty. The Uncertainty budgets are stated for each Test method, these are for reference, and should be considered when results are close to Specification Limits / Requirements.