



TEST REPORT

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REPORT NUMBER : TURT160188690
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SAMPLE DESCRIPTION : One sample of multicolour design carpet
DATE IN : 7 November ,2016 (11:40)
DATE OUT : 11 November ,2016
BUYER : Not Given
FIBER COMPOSITION : Not Given
NOTE : Test methods were given by the applicant
Colour Fastness to Artificial Light - Xenon Arc Fading Lamp Test was added
PROVIDED CARE LABEL : Not Given

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TEST	SAMPLE
	1
Carcinogenous Dyestuff	P
Change in Appearance by Means of Hexapod Tumbler Tester	NR
Tuft Withdrawal Force	NR
Colour Fastness to Artificial Light - Xenon Arc Fading Lamp Test	NR
Colour Fastness to Domestic and Commercial Laundering	NR
Colour Fastness to Rubbing	NR
Colour Fastness to Water	NR
Detection of Amines Derived From Azocolourants and Azodyes	P
Determination of Free and Hydrolised Formaldehyde Test (Water extraction method)	P
Fiber Composition	NR

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE / LS = LACK OF SAMPLE / NC = NO COMMENT / I = INCONCLUSIVE / # = SEE RESULT / NF = NEEDS FURTHER TESTING / A = ABSENT / M = MARGINAL ACCEPT / SD = SEE DETAILS ENCLOSED

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Test Method	Results	Requirements
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Carcinogenous Dyestuff

IHTM AL.2.090 & AL.2.178 refer to 64 LFGB B82.02-10 By High Performance Liquid Chromatography & Mass Spectroscopy (LC-MS-MS) & HPLC - DAD Analysis

Result

1-Multi color design carpet		
ACID RED 26	Not Detected	Not Detected
BASIC RED 9	Not Detected	
BASIC VIOLET 14	Not Detected	
DIRECT BLACK 38	Not Detected	
DIRECT BLUE 6	Not Detected	
DIRECT RED 28	Not Detected	
DISPERSE BLUE 1	Not Detected	
DISPERSE ORANGE 11	Not Detected	
DISPERSE YELLOW 3	Not Detected	
PIGMENT RED 104	Not Detected	
PIGMENT YELLOW 34	Not Detected	
2-Brown ,white back carpet		
ACID RED 26	Not Detected	Not Detected
BASIC RED 9	Not Detected	
BASIC VIOLET 14	Not Detected	
DIRECT BLACK 38	Not Detected	
DIRECT BLUE 6	Not Detected	
DIRECT RED 28	Not Detected	
DISPERSE BLUE 1	Not Detected	
DISPERSE ORANGE 11	Not Detected	
DISPERSE YELLOW 3	Not Detected	
PIGMENT RED 104	Not Detected	
PIGMENT YELLOW 34	Not Detected	

ppm (part per million) =mg / kg
Detection Limit =0.5 mg/L
n.d Not Detected
< =Less Than
Estimated Total Uncertainty=(±8%)

Test Method	Results	Requirements
(*)Change in Appearance by Means of Hexapod Tumbler Tester		
BS ISO 10361 METHOD B:2015		
4000 revs		
Underlay was not used		
Type of vacuum clecner:upright vacum clecner		
Grade:CRI4		
	3	No Requirement

(*)Tuft Withdrawal Force

BS 5229:1975 (withdrawn)

	<u>Result</u>	
1	40.3 N	No Requirement
2	45.7 N	
3	35.3 N	
4	39.9 N	
5	40.6 N	
Average	40.3 N	

Test Method	Results	Requirements
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Colour Fastness to Artificial Light - Xenon Arc Fading Lamp Test

ISO 105 B02 : 2014

Blue Wool Grade 6 faded up to Gray Scale 4

Method 2 modified

Mode of operation: Non Turning

Illuminant used for assessment: natural daylight (D65)

Shade Change

a-Black	6	No Requirement
b-Green	6	
c-Yellow	6	
d-Red	6	
e-Others	6	

Estimated Total Uncertainty=($\pm$ 0,5 Grade)

Test Method	Results	Requirements
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Colour Fastness to Domestic and Commercial Laundering

ISO 105 C06 : 2010
A2S@40°C

Shade	Staining					
Change	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool

Black&Brown design	4	4-5	4-5	4-5	4-5	4-5	4-5	No Requirement
	Cross staining:4-5							
Red&Green design	4	4-5	4-5	4-5	4-5	4-5	4-5	
	Cross staining:4-5							
Blue&Yellow design	4	4-5	4	4-5	4-5	4-5	4-5	
	Cross staining:4-5							

Estimated Total Uncertainty=(± 0,5 Grade)

Test Method	Results	Requirements
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Colour Fastness to Rubbing

ISO 105 X12 : 2016

Original

Dry	Wet
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Gren	4-5	4-5	No Requirement
Red	4-5	4-5	
Black	4-5	4	
Brown	4-5	4-5	
Yellow	4-5	4-5	
Blue	4-5	4-5	

Unless otherwise is mentioned, specimen tested diagonally

Condition :ISO 139, Crockmeter, Rubbing Cloth, 9N, 10 times, ISO 105 A03 (Grey Scale for Staining)

Percentage of soaking: 95% - 100%

Finger: 16±0.1 mm diameter

Estimated Total Uncertainty=(± 0,5 Grade)

Test Method	Results	Requirements
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Colour Fastness to Water

ISO 105 E01 : 2013

Shade	Staining					
Change	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool

Black&Brown design	4-5	4-5	4-5	4-5	4-5	4-5	4-5	No Requirement
	Cross staining:4-5							
Red&Green design	4-5	4-5	4-5	4-5	4-5	4-5	4-5	
	Cross staining:4-5							
Blue&Yellow design	4-5	4-5	4-5	4-5	4-5	4-5	4-5	
	Cross staining:4-5							

Estimated Total Uncertainty=(± 0,5 Grade)

Test Method	Results	Requirements
Detection of Amines Derived From Azocolourants and Azodyes		
BS EN 14362 - 1 : 2012 for Textile Material		
By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.		
1-Composite sample of yellow,navy,green design part (with extraction)		<30 ppm
2-Composite sample of red,brown,black design carpet (with extraction)		
3-Brown back carpet (with extraction)		

FORBIDDEN AMINE	CAS NO	RESULTS		
		1	2	3
4-AMINOBIIPHENYL	92-67-1	N	N	N
BENZIDINE	92-87-5	N	N	N
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2	N	N	N
2-NAPHTHYLAMINE	91-59-8	N	N	N
*O-AMINOAZOTOLUENE	97-56-3	N	N	N
*2-AMINO-4-NITROTOLUENE	99-55-8	N	N	N
P-CHLOROANILINE	106-47-8	N	N	N
2,4-DIAMINOANISOLE	615-05-4	N	N	N
4,4'-DIAMINOBIIPHENYLMETHANE	101-77-9	N	N	N
3,3'-DICHLOBENZIDINE	91-94-1	N	N	N
3,3'-DIMETHOXYBENZIDINE	119-90-4	N	N	N
3,3'-DIMETHYLBENZIDINE	119-93-7	N	N	N
3,3'-DIMETHYL-4,4' DIAMINOBIIPHENYLMETHANE	838-88-0	N	N	N
P-CRESIDINE	120-71-8	N	N	N
4,4'-METHYLENE-BIS-(2 CHLOROANILINE)	101-14-4	N	N	N
4,4'-OXYDIANILINE	101-80-4	N	N	N
4,4'-THIODIANILINE	139-65-1	N	N	N
O-TOLUIDINE	95-53-4	N	N	N
2,4-TOLUENEDIAMINE	95-80-7	N	N	N
2,4,5-TRIMETHYLANILINE	137-17-7	N	N	N
O-ANISIDINE	90-04-0	N	N	N
**P-AMINOAZOBENZENE	60-09-3	N	N	N
2,4 XYLIDINE	95-68-1	N	N	N
2,6 XYLIDINE	87-62-7	N	N	N

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 colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenylenediamine . The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.
- 3)According to EN 14362-1:2012, separate test is suggested to ascertain the compliance for result of mixed test in the range between 5 ppm and 30 ppm.
- 4)Azocolourants 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 or 2-Naphthylamine or 2,4-Diaminoanisole is found exceeding requirement, the use of forbidden Azo colourants cannot be ascertained without additional information e.g. The chemical structure of the colourant used.

ppm : part per million (mg/kg) Detection Limit: 5 ppm < = Less Than N: Not Detected NC : No Comment

Estimated Total Uncertainty=(±9%)

Test Method	Results	Requirements
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Determination of Free and Hydrolised Formaldehyde Test (Water extraction method)

BS EN ISO 14184 - 1 :2011 Free and Hydrolized Formaldehyde by UV-VIS Analysis

Result

1-Multicolor design carpet	<5 ppm	<75 ppm
2-Brown ,white back carpet	<5 ppm	

ppm (part per million) =mg / kg
Detection Limit =5 ppm
< =Less Than

Estimated Total Uncertainty=(±6%)

Note :Sample was received unsealed

Fiber Composition

ISO 1833 : 2006

Microscopic Identification

Result

Pile	100%Polyester	No Requirement
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Colour Change Grading		Staining Grading	
Grade	Description	Grade	Description
5	Negligible or no change	5	Negligible or no change
4	Slight colour change	4	Slight staining
3	Moderate colour change	3	Moderate staining
2	Distinct colour change	2	Distinct staining
1	Severe colour change	1	Severe staining

END OF TEST REPORT

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