



ORIGINAL

## TEST REPORT

No : 3210/FBE7007  
Date : Sep.07,2007

Applicant : MBW Vertriebsges. mbH  
Address : Tarper Str. 2, D-24997 Wanderup  
Sample Description : Twelve pieces of samples submitted by the applicant said to be  
Material used for Plush zoo Animals: Elephant, Giraffe, Lion, Moose,  
Horse, Hunting-leopard, Zebra, Tiger  
Item No. : 60030, 60031, 60033, 60034, 60035, 60036, 60037, 60032  
Place of Origin : China  
Date of Sample Received : Jul.06,2007  
Date of Resubmitted Sample : Aug.01,2007; Aug.14,2007  
Testing Period : Jul.06,2007-Sep.05,2007  
Test Requested : As specified by client, the specified materials  
1) To determine Flame Retardants in the submitted samples  
No.1-No.12  
2) To determine Colorfastness to Perspiration in the submitted  
samples No.1- No.12  
3) To determine Formaldehyde in the submitted samples No.1- No.12  
In accordance with safety of toys, EN71 Part 9:2005-Organic Chemical  
Compounds Requirements.  
Test Method : 1)-3) Samples preparation with reference to EN71-10 followed by  
analysis with reference to EN71-11.  
Results : Please refer to next page(s)

Signed for and on behalf of YTII



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Technologist



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The Results :

1)Flame Retardants

Test Items	CAS Number	Unit	No.1	No.2	No.3	No.4	Limit
Tri-o-cresyl phosphate(TOCP)	78-30-8	mg/kg	ND	ND	ND	ND	50
Tris(2-chloroethyl) phosphate(TCEP)	115-96-8	mg/kg	ND	ND	ND	ND	50
Test Items	CAS Number	Unit	No.5	No.6	No.7	No.8	Limit
Tri-o-cresyl phosphate(TOCP)	78-30-8	mg/kg	ND	ND	ND	ND	50
Tris(2-chloroethyl) phosphate(TCEP)	115-96-8	mg/kg	ND	ND	ND	ND	50
Test Items	CAS Number	Unit	No.9	No.10	No.11	No.12	Limit
Tri-o-cresyl phosphate(TOCP)	78-30-8	mg/kg	ND	ND	ND	ND	50
Tris(2-chloroethyl) phosphate(TCEP)	115-96-8	mg/kg	ND	ND	ND	ND	50

NOTE: ND=Not Detected, which denotes <50mg/kg.

- Test was determined by GC-MS.

2)Color fastness

Test Items	No.1	No.2	No.3	No.4	Limit
Acidic medium					
Staining on multifibre stripe					
Acetate	4-5	4-5	4-5	4-5	3-4
Cotton	4-5	4-5	4-5	4-5	3-4
Nylon	4-5	4-5	4-5	4-5	3-4
Polyester	4-5	4-5	4-5	4-5	3-4
Acrylic	4-5	4-5	4-5	4-5	3-4
Wool	4-5	4-5	4-5	4-5	3-4
Alkaline					
Staining on multifibre stripe					
Acetate	4-5	4-5	4-5	4-5	3-4
Cotton	4-5	4-5	4-5	4-5	3-4
Nylon	4-5	4-5	4-5	4-5	3-4
Polyester	4-5	4-5	4-5	4-5	3-4
Acrylic	4-5	4-5	4-5	4-5	3-4
Wool	4-5	4-5	4-5	4-5	3-4



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Test Items	No.5	No.6	No.7	No.8	Limit
Acidic medium					
Staining on multifibre stripe					
Acetate	4-5	4-5	4-5	4-5	3-4
Cotton	4-5	4-5	4-5	4-5	3-4
Nylon	4-5	4-5	4-5	4-5	3-4
Polyester	4-5	4-5	4-5	4-5	3-4
Acrylic	4-5	4-5	4-5	4-5	3-4
Wool	4-5	4-5	4-5	4-5	3-4
Alkaline					
Staining on multifibre stripe					
Acetate	4-5	4-5	4-5	4-5	3-4
Cotton	4-5	4-5	4-5	4-5	3-4
Nylon	4-5	4-5	4-5	4-5	3-4
Polyester	4-5	4-5	4-5	4-5	3-4
Acrylic	4-5	4-5	4-5	4-5	3-4
Wool	4-5	4-5	4-5	4-5	3-4

Test Items	No.9	No.10	No.11	No.12	Limit
Acidic medium					
Staining on multifibre stripe					
Acetate	4-5	4-5	4-5	4-5	3-4
Cotton	4-5	4-5	4-5	4-5	3-4
Nylon	4-5	4-5	4-5	4-5	3-4
Polyester	4-5	4-5	4-5	4-5	3-4
Acrylic	4-5	4-5	4-5	4-5	3-4
Wool	4-5	4-5	4-5	4-5	3-4
Alkaline					
Staining on multifibre stripe					
Acetate	4-5	4-5	4-5	4-5	3-4
Cotton	4-5	4-5	4-5	4-5	3-4
Nylon	4-5	4-5	4-5	4-5	3-4
Polyester	4-5	4-5	4-5	4-5	3-4
Acrylic	4-5	4-5	4-5	4-5	3-4
Wool	4-5	4-5	4-5	4-5	3-4

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

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#### 3)Formaldehyde

Test Items	CAS Number	Unit	No.1	No.2	No.3	No.4	No.5	Limit
Formaldehyde	50-00-0	mg/kg	ND	ND	ND	ND	ND	30

Test Items	CAS Number	Unit	No.6	No.7	No.8	No.9	No.10	Limit
Formaldehyde	50-00-0	mg/kg	ND	ND	ND	ND	ND	30

Test Items	CAS Number	Unit	No.11	No.12	Limit
Formaldehyde	50-00-0	mg/kg	ND	ND	30

NOTE: ND=Not Detected, which denotes <20 mg/kg

- Test was determined by Cary 50(UV-Vis).

#### Sample Appearance Description

No.1: Brown long plush

No.7: Yellow short plush

No.2: Black short plush

No.8: Yellow short plush printed with brown ink

No.3: Grey short plush

No.9: Black plush

No.4: White short plush printed with black ink

No.10: Beige plush printed with brown ink

No.5: Brown short plush

No.11: white short plush

No.6: Brown short plush printed brown/black ink

No.12: black embroidery thread

NOTE: mg/kg=milligram per kilogram

\*\*End of Report\*\*