

TEST REPORT

Report No. : MAN:HL:1348008818

DATE : 10th November, 2022



SPINKS INDIA

PLOT NO. 135, SEC-37 PACE CITY-I.

INDIA

CONTACT PERSON : DR. SAUMYA SHALU

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION FARBAMAX PRO TX- 200,201,300,301,303,500,502,601,900,,100,001

BUYER **HASBRO (SELF REFERENCE)**

SAMPLE RECD ON 20/10/2022

TEST PERFORMING DATE 31/10/2022 TO 10/11/2022

SUMMARY OF TEST RESULT:

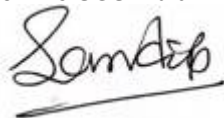
TEST REQUESTED	CONCLUSION
1. Hasbro Safety and Reliability Specification SRS-018 (rev. G,2/4/21) – Total Heavy Metals Content	Pass
2. Hasbro Safety and Reliability Specification SRS-018 (rev. G,2/4/21) – Toxic Element Migration Test	Pass
3. Hasbro Global Quality Assurance SRS-046 (rev.ab, 7/8/20) - Plasticizer, Stabilizer Specification - Certain Phthalates Content	Pass

TEST(S) RESULTS: PLEASE REFER TO THE NEXT PAGE(S)

Note:

1. Submitted sample has been tested for supplier reference only.
2. The testing is performed for the SELF REFERENCE of the customer as per requested methods.
3. Only selective tests are conducted as per Supplier's request.
4. The report is not generated in Buyer format, as the same in for supplier reference only.

Per Pro SGS India Pvt. Ltd.



SANDIP BHUSHAN (Technical Manager)

Authorized Signatory

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

TEST REPORT

Report No. : MAN:HL:1348008818

DATE : 10th November, 2022



TEST RESULT:

1. SRS-018 (Rev. G, 2/4/21) – Total Heavy Metal Content

Method: With reference to ISO 8124-5:2015. Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

For Coating Materials

Test Item(s)		Result (mg/kg)	Reporting Limit (mg/kg)	Action Limit (mg/kg)	Permissible Limit (mg/kg)
		1			
Total Cadmium	(Cd)	ND	5	28	40
Total Lead	(Pb)	ND	5	10	20
Total Mercury	(Hg)	ND	5	--	5
Total Nickel	(Ni)	ND	25	--	10000
Comment		Pass	--	--	--

- Note:**
- mg/kg = milligram per kilogram
 - ND = Not Detected
 - 1% = 10000 mg/kg = 10000 ppm

Remark: - The above test(s) was performed by SGS Gurugram Chemical lab.

Specimen Description:

No.	Component(s)	Material
1	FARBAMAX PRO TX- 200,201,300,301,303,500,502,601,900,100,001	LIQUID

TEST REPORT

Report No. : MAN:HL:1348008818

DATE : 10th November, 2022



2. SRS-018 (Rev. G, 2/4/21) – Toxic Element Migration Test

Method: With reference to EN 71-3: 2019 + A1:2021. Analysis of general elements was performed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS)/ Inductively Coupled Plasma optical emission spectrometry (ICP-OES). Chromium (III) was obtained by calculation, Chromium (VI) was analyzed by LC-DAD / LC-ICP-MS. Organic Tin was analyzed by GC-MS.

For Coating Materials

Test Item(s)		Soluble Result(s) (mg/kg)	Reporting Limit (mg/kg)	Action Limit (mg/kg)	Permissible Limit (mg/kg)
		1			
Mass of trace of amount	(mg)	--	--	--	--
Soluble Aluminium	(Al)	ND	50	19641	28130
Soluble Antimony	(Sb)	ND	10	42	60
Soluble Arsenic	(As)	ND	10	18	25
Soluble Barium	(Ba)	ND	50	700	1000
Soluble Boron	(B)	ND	50	10500	15000
Soluble Cadmium	(Cd)	ND	5	12	17
Soluble Chromium	(Cr)	ND	5	42	60
Soluble Chromium (III)#	(Cr (III))	ND	5	322	460
Soluble Chromium (VI)#	(Cr (VI))	ND	0.02	--	0.053
Soluble Cobalt	(Co)	ND	10	91	130
Soluble Copper	(Cu)	ND	50	5390	7700
Soluble Lead	(Pb)	ND	5	10	20
Soluble Manganese	(Mn)	ND	50	10500	15000
Soluble Mercury	(Hg)	ND	5	--	5
Soluble Nickel	(Ni)	ND	10	651	930
Soluble Selenium	(Se)	ND	10	322	460
Soluble Strontium	(Sr)	ND	50	39200	56000
Soluble Tin	(Sn)	ND	2.5	126000	180000
Soluble Organic Tin [^]	(oSn)	ND	--	8	12
Soluble Zinc	(Zn)	ND	50	32200	46000
Comment		Pass	--	--	--

- Note:**
- mg/kg = milligram per kilogram
 - ND = Not Detected
 - 1% = 10000 mg/kg = 10000 ppm
 - # The test result of soluble chromium (III) and chromium (VI) were derived from soluble chromium screening and then confirmation test for soluble chromium (III) and soluble Chromium (VI) on component with soluble chromium exceeding the screening limit of 0.01 mg/kg soluble Cr.
 - ^ The test result of soluble organic tin was derived from soluble tin screening and then confirmation test for soluble organic tin on component exceeding the screening limit of 2.5 mg/kg soluble Sn.
- Remark:**
- The above test(s) was performed by SGS Gurugram Chemical lab.

Specimen Description:

No.	Component(s)	Material
1	FARBAMAX PRO TX- 200,201,300,301,303,500,502,601,900,100,001	LIQUID

TEST REPORT

Report No. : MAN:HL:1348008818

DATE : 10th November, 2022



3.SRS-046 (Rev. AB, 7/8/20) – Certain Phthalates Content

Method: With reference to CPSC-CH-C1001-09.4:2018. Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	CAS No.	Result (%)	Reporting Limit (%)	Action Limit (%)	Permissible Limit (%)
		1			
Dibutyl Phthalate (DBP)	84-74-2	ND	0.005	0.01	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.005	0.01	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	0.005	0.01	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	0.01	0.01	0.1
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	0.01	0.01	0.1
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	0.01	0.01	0.1
Di-n-Hexyl phthalate (DHEXP/DnHP)	84-75-3	ND	0.01	0.01	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	0.01	0.1
Di-n-pentyl phthalate (DPP/DPenP)	131-18-0	ND	0.01	0.01	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	0.01	0.01	0.1
Diisooheptyl phthalate (DIHP)	41451-28-9 71888-89-6	ND	0.01	0.01	0.1
Bis-methylglycol phthalate (DMEP)	117-82-8	ND	0.01	0.01	0.1
Bis-isopentyl phthalate (DIPP)	605-50-5	ND	0.01	0.01	0.1
Diethyl Phthalate (DEP)	84-66-2	ND	0.01	0.01	0.1
Bis (2-ethylhexyl) Tetrabromophthalate (TBPH)	26040-51-7	ND	0.01	0.01	0.1
1,2-Benzenedicarboxylic Acid, Dihexyl Ester, Branched and Linear	68515-50-4	ND	0.01	0.05	0.1
1,2-Benzenedicarboxylic Acid, Di-C7-11-Branched and Linear Alkyl Esters (DHNUP)	68515-42-4	ND	0.01	0.05	0.1
1,2-Benzenedicarboxylic Acid, Dipentylester, Branched and Linear	84777-06-0	ND	0.01	0.05	0.1
1,2-Benzenedicarboxylic Acid, Mixed Decyl and Hexyl and Octyl Diesters	68648-93-1	ND	0.01	0.05	0.1
1,2-Benzenedicarboxylic Acid, Di-C6-10-alkyl Esters	68515-51-5	ND	0.01	0.05	0.1
N-pentyl-isopentyl Phthalate	776297-69-9	ND	0.01	0.05	0.1
Diisohexyl Phthalate	71850-09-4	ND	0.01	0.05	0.1
Total (DBP + BBP + DEHP+DIBP)		ND	--	--	0.1
Total (DINP + DNOP + DIDP)		ND	--	--	0.1
Total (DIHP + DMEP + DIPP + DPenP + DNHP)		ND	--	--	0.1
Comment		Pass	--	--	--

- Note:**
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected
 - 1% = 10000 mg/kg = 10000 ppm

Remark: - The above test(s) was performed by SGS Gurugram Chemical lab.

Specimen description:

No.	Component(s)	Material
1	FARBAMAX PRO TX- 200,201,300,301,303,500,502,601,900,100,001	LIQUID

TEST REPORT

Report No. : MAN:HL:1348008818

DATE : 10th November, 2022



Sample as Received



*****END OF REPORT*****