

START DATE 23/10/2020
END DATE 28/10/2020

APPLICANT

Staroplastic S.r.o.
Videnska 149/125a
61900 Brno OO

SAMPLE DESCRIPTION Quotation No. 306T
Receiving Date: 19/10/2020
Quantity: 8 Pieces
Name: Play-Staro
Buyer's Name: Staroplastic S.r.o.

Sample 01 SAMPLE DESCRIPTION: RED PLASTIC OUTSIDE SAMPLE 1 ("PLAY-STARO").

Test	Rating	Failure result
Specification for Migration of Certain Elements EN 71-3: 2019	P	

Sample 02 SAMPLE DESCRIPTION: BLACK PLASTIC INSIDE SAMPLE 1 ("PLAY-STARO").

Test	Rating	Failure result
Specification for Migration of Certain Elements EN 71-3: 2019	P	

Sample 03 SAMPLE DESCRIPTION: YELLOW PLASTIC OUTSIDE SAMPLE 2 ("PLAY-STARO").

Test	Rating	Failure result
Specification for Migration of Certain Elements EN 71-3: 2019	P	

Sample 04 SAMPLE DESCRIPTION: WHITE PLASTIC INSIDE SAMPLE 2 ("PLAY-STARO").

Test	Rating	Failure result
Specification for Migration of Certain Elements EN 71-3: 2019	P	

Sample 05 SAMPLE DESCRIPTION: BLUE PLASTIC OUTSIDE SAMPLE 3 ("PLAY-STARO").

Test	Rating	Failure result
Specification for Migration of Certain Elements EN 71-3: 2019	P	

Sample 06 SAMPLE DESCRIPTION: YELLOW PLASTIC INSIDE SAMPLE 3 ("PLAY-STARO").

Test	Rating	Failure result
Specification for Migration of Certain Elements EN 71-3: 2019	P	

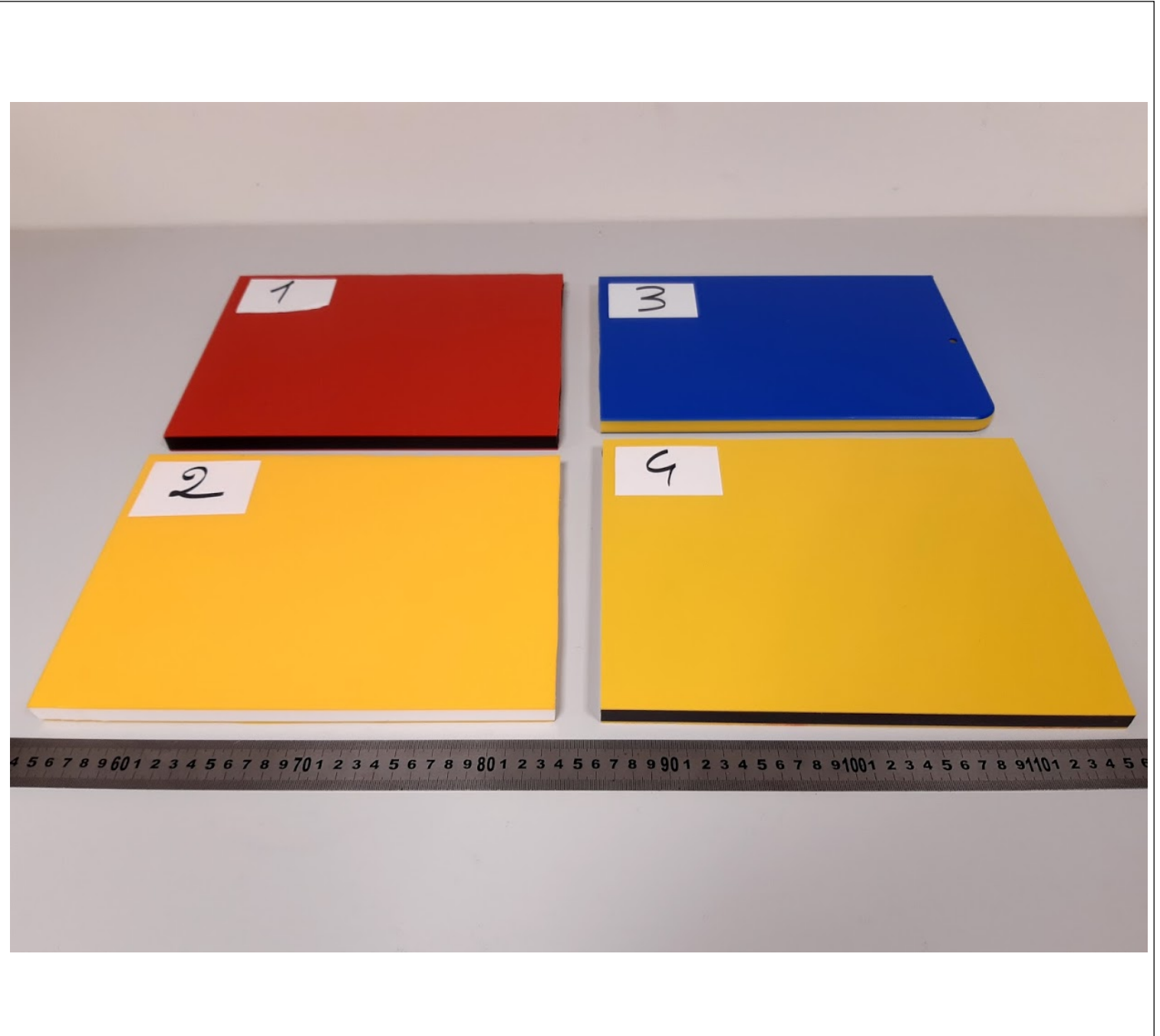
Sample 07 SAMPLE DESCRIPTION: YELLOW PLASTIC OUTSIDE SAMPLE 4 ("PLAY-STARO").

Test	Rating	Failure result
Specification for Migration of Certain Elements EN 71-3: 2019	P	

P = MEETS REQUIREMENT / A = ACCEPTABLE / F = DOES NOT MEET REQUIREMENT / NR = NO REQUIREMENT / SC = STILL CONTINUES / X = NOT PERFORMED
Values in brackets represent the limits



LAB N° 0579 L



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TEST METHOD	SAMPLE DESCRIPTION	PARAMETERS	RESULT	U.M.	LIMITS	LO	NOTES	LAB		
Specification for Migration of Certain Elements EN 71-3: 2019	01 SAMPLE DESCRIPTION: RED PLASTIC OUTSIDE SAMPLE 1 ("PLAY-STARO").	Alluminium 7429-90-5	< 5	mg/kg	70000	5	#al	ITA		
		Antimony 7440-36-0	< 5	mg/kg	560	5		ITA		
		Arsenic 7440-38-2	< 5	mg/kg	47	5		ITA		
		Barium 7440-39-3	< 5	mg/kg	18750	5		ITA		
		Boron 7440-42-8	< 5	mg/kg	15000	5		ITA		
		Cadmium 7440-43-9	< 1	mg/kg	17	1		ITA		
		Chromium III 16065-83-1	< 5	mg/kg	460	5		ITA		
		Chromium VI 18540-29-9	< 0,02	mg/kg	0,053	0,02	*	ITA		
		Cobalt 7440-48-4	< 5	mg/kg	130	5		ITA		
		Copper 7440-50-8	< 5	mg/kg	7700	5		ITA		
		Lead 7439-92-1	< 5	mg/kg	23	5		ITA		
		Manganese 7439-96-5	< 5	mg/kg	15000	5		ITA		
		Mercury 7439-97-6	< 5	mg/kg	94	5		ITA		
		Nickel 7440-02-0	< 5	mg/kg	930	5		ITA		
		Selenium 7782-49-2	< 5	mg/kg	460	5		ITA		
		Strontium 7440-24-6	< 5	mg/kg	56000	5		ITA		
		Tin 7440-31-5	< 3,25	mg/kg	180000	3,25		ITA		
		Zinc 7440-66-6	< 5	mg/kg	46000	5		ITA		
		Organic Tin	< 8	mg/kg	12	8	#tin *	ITA		
			02 SAMPLE DESCRIPTION: BLACK PLASTIC INSIDE SAMPLE 1 ("PLAY-STARO").	Alluminium 7429-90-5	< 5	mg/kg	70000	5	#al	ITA
				Antimony 7440-36-0	< 5	mg/kg	560	5		ITA
Arsenic 7440-38-2	< 5			mg/kg	47	5		ITA		
Barium 7440-39-3	< 5			mg/kg	18750	5		ITA		
Boron 7440-42-8	< 5			mg/kg	15000	5		ITA		



Laboratory Manager


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Validated by: Giovanni Servadei

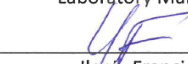
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TEST METHOD	SAMPLE DESCRIPTION	PARAMETERS	RESULT	U.M.	LIMITS	LO	NOTES	LAB
		Cadmium 7440-43-9	< 1	mg/kg	17	1		ITA
		Chromium III 16065-83-1	< 5	mg/kg	460	5		ITA
		Chromium VI 18540-29-9	< 0,02	mg/kg	0,053	0,02	*	ITA
		Cobalt 7440-48-4	< 5	mg/kg	130	5		ITA
		Copper 7440-50-8	< 5	mg/kg	7700	5		ITA
		Lead 7439-92-1	< 5	mg/kg	23	5		ITA
		Manganese 7439-96-5	< 5	mg/kg	15000	5		ITA
		Mercury 7439-97-6	< 5	mg/kg	94	5		ITA
		Nickel 7440-02-0	< 5	mg/kg	930	5		ITA
		Selenium 7782-49-2	< 5	mg/kg	460	5		ITA
		Strontium 7440-24-6	< 5	mg/kg	56000	5		ITA
		Tin 7440-31-5	< 3,25	mg/kg	180000	3,25		ITA
		Zinc 7440-66-6	< 5	mg/kg	46000	5		ITA
		Organic Tin	< 8	mg/kg	12	8	#tin *	ITA
	03 SAMPLE DESCRIPTION: YELLOW PLASTIC OUTSIDE SAMPLE 2 ("PLAY-STARO").	Aluminium 7429-90-5	< 5	mg/kg	70000	5	#al	ITA
		Antimony 7440-36-0	< 5	mg/kg	560	5		ITA
		Arsenic 7440-38-2	< 5	mg/kg	47	5		ITA
		Barium 7440-39-3	< 5	mg/kg	18750	5		ITA
		Boron 7440-42-8	< 5	mg/kg	15000	5		ITA
		Cadmium 7440-43-9	< 1	mg/kg	17	1		ITA
		Chromium III 16065-83-1	< 5	mg/kg	460	5		ITA
		Chromium VI 18540-29-9	< 0,02	mg/kg	0,053	0,02	*	ITA
		Cobalt 7440-48-4	< 5	mg/kg	130	5		ITA
		Copper 7440-50-8	< 5	mg/kg	7700	5		ITA
		Lead 7439-92-1	< 5	mg/kg	23	5		ITA
		Manganese 7439-96-5	< 5	mg/kg	15000	5		ITA



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TEST METHOD	SAMPLE DESCRIPTION	PARAMETERS	RESULT	U.M.	LIMITS	LO	NOTES	LAB
		Mercury 7439-97-6	< 5	mg/kg	94	5		ITA
		Nickel 7440-02-0	< 5	mg/kg	930	5		ITA
		Selenium 7782-49-2	< 5	mg/kg	460	5		ITA
		Strontium 7440-24-6	< 5	mg/kg	56000	5		ITA
		Tin 7440-31-5	< 3,25	mg/kg	180000	3,25		ITA
		Zinc 7440-66-6	< 5	mg/kg	46000	5		ITA
		Organic Tin	< 8	mg/kg	12	8	#tin *	ITA
	D4 SAMPLE DESCRIPTION: WHITE PLASTIC INSIDE SAMPLE 2 ("PLAY-STARO").	Alluminium 7429-90-5	< 5	mg/kg	70000	5	#al	ITA
		Antimony 7440-36-0	< 5	mg/kg	560	5		ITA
		Arsenic 7440-38-2	< 5	mg/kg	47	5		ITA
		Barium 7440-39-3	< 5	mg/kg	18750	5		ITA
		Boron 7440-42-8	< 5	mg/kg	15000	5		ITA
		Cadmium 7440-43-9	< 1	mg/kg	17	1		ITA
		Chromium III 16065-83-1	< 5	mg/kg	460	5		ITA
		Chromium VI 18540-29-9	< 0,02	mg/kg	0,053	0,02	*	ITA
		Cobalt 7440-48-4	< 5	mg/kg	130	5		ITA
		Copper 7440-50-8	< 5	mg/kg	7700	5		ITA
		Lead 7439-92-1	< 5	mg/kg	23	5		ITA
		Manganese 7439-96-5	< 5	mg/kg	15000	5		ITA
		Mercury 7439-97-6	< 5	mg/kg	94	5		ITA
		Nickel 7440-02-0	< 5	mg/kg	930	5		ITA
		Selenium 7782-49-2	< 5	mg/kg	460	5		ITA
		Strontium 7440-24-6	< 5	mg/kg	56000	5		ITA
		Tin 7440-31-5	< 3,25	mg/kg	180000	3,25		ITA
		Zinc 7440-66-6	< 5	mg/kg	46000	5		ITA
		Organic Tin	< 8	mg/kg	12	8	#tin *	ITA



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TEST METHOD	SAMPLE DESCRIPTION	PARAMETERS	RESULT	U.M.	LIMITS	LO	NOTES	LAB
	05 SAMPLE DESCRIPTION: BLUE PLASTIC OUTSIDE SAMPLE 3 ("PLAY-STARO").	Aluminium 7429-90-5	< 5	mg/kg	70000	5	#al	ITA
		Antimony 7440-36-0	< 5	mg/kg	560	5		ITA
		Arsenic 7440-38-2	< 5	mg/kg	47	5		ITA
		Barium 7440-39-3	< 5	mg/kg	18750	5		ITA
		Boron 7440-42-8	< 5	mg/kg	15000	5		ITA
		Cadmium 7440-43-9	< 1	mg/kg	17	1		ITA
		Chromium III 16065-83-1	< 5	mg/kg	460	5		ITA
		Chromium VI 18540-29-9	< 0,02	mg/kg	0,053	0,02	*	ITA
		Cobalt 7440-48-4	< 5	mg/kg	130	5		ITA
		Copper 7440-50-8	< 5	mg/kg	7700	5		ITA
		Lead 7439-92-1	< 5	mg/kg	23	5		ITA
		Manganese 7439-96-5	< 5	mg/kg	15000	5		ITA
		Mercury 7439-97-6	< 5	mg/kg	94	5		ITA
		Nickel 7440-02-0	< 5	mg/kg	930	5		ITA
		Selenium 7782-49-2	< 5	mg/kg	460	5		ITA
		Strontium 7440-24-6	< 5	mg/kg	56000	5		ITA
		Tin 7440-31-5	< 3,25	mg/kg	180000	3,25		ITA
		Zinc 7440-66-6	< 5	mg/kg	46000	5		ITA
		Organic Tin	< 8	mg/kg	12	8	#tin *	ITA
	06 SAMPLE DESCRIPTION: YELLOW PLASTIC INSIDE SAMPLE 3 ("PLAY-STARO").	Aluminium 7429-90-5	< 5	mg/kg	70000	5	#al	ITA
		Antimony 7440-36-0	< 5	mg/kg	560	5		ITA
		Arsenic 7440-38-2	< 5	mg/kg	47	5		ITA
		Barium 7440-39-3	< 5	mg/kg	18750	5		ITA
		Boron 7440-42-8	< 5	mg/kg	15000	5		ITA



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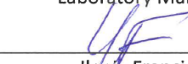
Validated by: Giovanni Servadei

TEST METHOD	SAMPLE DESCRIPTION	PARAMETERS	RESULT	U.M.	LIMITS	LO	NOTES	LAB
		Cadmium 7440-43-9	< 1	mg/kg	17	1		ITA
		Chromium III 16065-83-1	< 5	mg/kg	460	5		ITA
		Chromium VI 18540-29-9	< 0,02	mg/kg	0,053	0,02	*	ITA
		Cobalt 7440-48-4	< 5	mg/kg	130	5		ITA
		Copper 7440-50-8	< 5	mg/kg	7700	5		ITA
		Lead 7439-92-1	< 5	mg/kg	23	5		ITA
		Manganese 7439-96-5	< 5	mg/kg	15000	5		ITA
		Mercury 7439-97-6	< 5	mg/kg	94	5		ITA
		Nickel 7440-02-0	< 5	mg/kg	930	5		ITA
		Selenium 7782-49-2	< 5	mg/kg	460	5		ITA
		Strontium 7440-24-6	< 5	mg/kg	56000	5		ITA
		Tin 7440-31-5	< 3,25	mg/kg	180000	3,25		ITA
		Zinc 7440-66-6	< 5	mg/kg	46000	5		ITA
		Organic Tin	< 8	mg/kg	12	8	#tin *	ITA
	07 SAMPLE DESCRIPTION: YELLOW PLASTIC OUTSIDE SAMPLE 4 ("PLAY-STARO").	Aluminium 7429-90-5	< 5	mg/kg	70000	5	#al	ITA
		Antimony 7440-36-0	< 5	mg/kg	560	5		ITA
		Arsenic 7440-38-2	< 5	mg/kg	47	5		ITA
		Barium 7440-39-3	< 5	mg/kg	18750	5		ITA
		Boron 7440-42-8	< 5	mg/kg	15000	5		ITA
		Cadmium 7440-43-9	< 1	mg/kg	17	1		ITA
		Chromium III 16065-83-1	< 5	mg/kg	460	5		ITA
		Chromium VI 18540-29-9	< 0,02	mg/kg	0,053	0,02	*	ITA
		Cobalt 7440-48-4	< 5	mg/kg	130	5		ITA
		Copper 7440-50-8	< 5	mg/kg	7700	5		ITA
		Lead 7439-92-1	< 5	mg/kg	23	5		ITA
		Manganese 7439-96-5	< 5	mg/kg	15000	5		ITA



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TEST METHOD	SAMPLE DESCRIPTION	PARAMETERS	RESULT	U.M.	LIMITS	LQ	NOTES	LAB
		Mercury 7439-97-6	< 5	mg/kg	94	5		ITA
		Nickel 7440-02-0	< 5	mg/kg	930	5		ITA
		Selenium 7782-49-2	< 5	mg/kg	460	5		ITA
		Strontium 7440-24-6	< 5	mg/kg	56000	5		ITA
		Tin 7440-31-5	< 3,25	mg/kg	180000	3,25		ITA
		Zinc 7440-66-6	< 5	mg/kg	46000	5		ITA
		Organic Tin	< 8	mg/kg	12	8	#tin *	ITA

Test performed by:

ITA: Intertek Italia S.p.a.

Via di Stagno 17 F/G

50055 Lastra a Signa (FI)

Tests marked with star (*) haven't been Accredia accredited.

Notes

#al = The new aluminium migration limit [(2250 mg/kg for Category (I), 560 mg/kg for category (II) and 28130 mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.

#tin = Organotin result is calculated using a 2,44 times factor based on the Tin result.

The partial reproduction of the present Test Report is not allowed without written authorization of the General Manager.

The content of the present document refers exclusively to the submitted samples and not to the batch that they want to represent.

A representative portion of the sample is kept for 60 days. Specimen are kept for 30 days.

Samples are drawn by customer.

UM: unit of measurement

Limits are based on Customer's Manual in force available at Intertek Italia S.p.a. - Via di Stagno 17 F/G - 50055 Lastra a Signa (FI)

Uncertainty is the extended uncertainty calculated using a coverage factor of 2 which gives a level of confidence of approximately 95%.

All the results are reported without considering the uncertainty.

LQ: Quantification Limit

As received by the customer, the sample was accepted for testing.

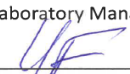
RESULTS MARKED IN RED EXCEED LIMITS

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

END OF TEST REPORT



Laboratory Manager


 Ilenia Francioni
 ilenia.francioni@intertek.com

Validated by: Giovanni Servadei

LAB N° 0579 L