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Test Report No. R-1392092/2

Dated 23/11/2020

Client: **Technix Rubber & Plastics Ltd.**
Unit 16/17 Bottings Industrial Estate, Hillsons Road, Curdridge,
Southampton SO30 2DY
United Kingdom

Attention: Ms. Beckie Upson, Mr. Lewis Lynch, Mr. Richard Lynch,

Sample Description **Rubber mats**
Sample No. 2 Grass Lok, 23 mm

Date of Testing: From 07/10/2019 to 28/10/2019

Receipt day of the Sample: 09/07/2019

Sample submitted: The sample(s) was (were) submitted by applicant and identified.

Expert:

Head of department:

Judit Beczéné dr. Kiss

Judit Beczéné dr. Kiss

Gabriella Süvegesné Váradi

Gabriella Süvegesné Váradi

Remark: The result relates only to the items tested

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Miklós Cseresznyák

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ÉMI-TÜV SÜD Kft.
Central Laboratory
KERMI Department

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Dugonics u. 11.



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Conclusion

Test Items	Test parameter	Results
Sample No. 2 Rubber mat - Grass Lok	PAH	AfPS GS 2014:01 PAK- Pass - Category 3 REACH - Pass

Test Items	Test parameter	Results
Sample No. 2 Rubber mat - Grass Lok	PBB, PBDE compounds	Pass



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Test results

1. Polycyclic Aromatic Hydrocarbons

Test method: AfPS GS 2014:01 PAK

Tested parameter PAH name	CAS No.	Test results mg/kg \pm 10 rel. %
		Sample No. 2 Rubber mat - Grass Lok
Naphthalane	91-20-3	N.D.*
Benz[a]anthracene	56-55-3	N.D.
Chrysene	218-01-9	N.D.
Benzo [b]fluoranthene	205-99-2	N.D.
Benzo [k]fluoranthene	207-08-9	N.D.
Benzo[e]pyren	192-97-2	N.D.
Benzo[j]fluoranthene	205-82-3	N.D.
Benzo [a] pyrene	50-32-8	N.D.
Indeno [1,2,3-cd]pyrene	193-39-5	N.D.
Dibenz [a,h] anthracene	53-70-3	N.D.
Benzo [g,h,i]perylene	191-24-2	N.D.
Acenaphthylene	208-96-8	13.8
Acenaphthene	83-32-9	
Fluorene	86-73-7	
Phenanthrene	85-01-8	
Anthracene	120-12-7	
Fluoranthene	206-44-0	
Pyrene	129-00-0	
SUM:		13.8

*N.D.: not detected; LOQ: 0,2 mg/kg per component



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Requirements: AfPS GS 2014:01 PAK

Parameter	Category 1 Materials indented to be put in the mouth, or materials of toys with intended long term skin contact (>30s)	Category 2		Category 3	
		Materials not covered by category 1, with foreseeable skin contact for longer than 30s (long-term skin contact) or repeated short term skin contact*	Toys acc to directive 2009/48/EC	All other products acc to ProdSG	Materials not covered by category 1 or 2 with foreseeable skin contact up to 30s (short term skin contact)
Benzo [a] pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo [b] fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo [k]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo [a,h] anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo [g,h,i]perylene	<0.2	<0.2	<0.5	<0.5	<1
Indeno [1,2,3-cd] pyrene	<0.2	<0.2	<0.5	<0.5	<1
Acenaphthylene Acenaphthene Fluorene Phenantrene Pyrene Anthracene Fluoranthene	sum<1	sum<5	sum<10	sum<20	sum<50
Naphthalane	<1	<2		<10	
Sum 18 PAHs mg/kg	<1	<5	<10	<20	<50

*Definition: short-term repetitive contact with the human skin from "REACH Annex XVII Nr.50 amendment (commission regulation (EU) No 1272/2013)"

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Requirement: REACH Regulation 1272/2013/EU

PAH	CAS No.	Requirement
Benzo [a] pyrene	50-32-8	<1 mg/kg
Benzo[e]pyrene	192-97-2	<1 mg/kg
Benzo[a]anthracene	56-55-3	<1 mg/kg
Benzo [b] fluoranthene	205-99-2	<1 mg/kg
Benzo[j]fluoranthene	205-82-3	<1 mg/kg
Benzo [k]fluoranthene	207-08-9	<1 mg/kg
Chrysene	218-01-9	<1 mg/kg
Dibenzo [a,h] anthracene	53-70-3	<1 mg/kg



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2. Polybrominated biphenols and polybrominated diphenylethers (PBB, PBDE)

Test method: DIN EN 62321-6:2016-05, VDE 0042-1-6:2016-05

Tested parameter PBB, PBDE	Test results mg/kg \pm 10 rel. %	Requirement ROHS DIRECTIVE 2011/65/EU (mg/kg)
	Sample No. 2 Rubber mat – Grass Lok	
PBB	<100	<1000
Mono-BDE	<100	
Di-BDE	<100	
Tri-BDE	<100	
Tetra-BDE	<100	
Penta-BDE	<100	
Hexa-BDE	<100	
Hepta-BDE	<100	
Octa-BDE	<100	
Nona-BDE	<100	
Deca-BDE	<500	
SUM of PBB/PBDE	<1000	

Limit of detection (LOD): 100 mg/kg; 500 mg/kg

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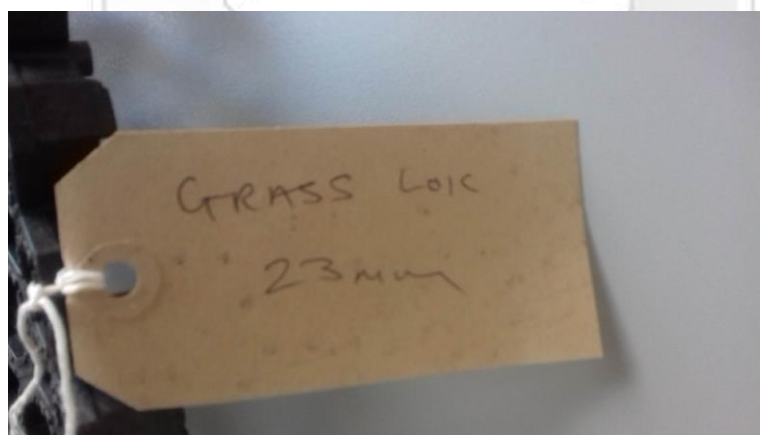
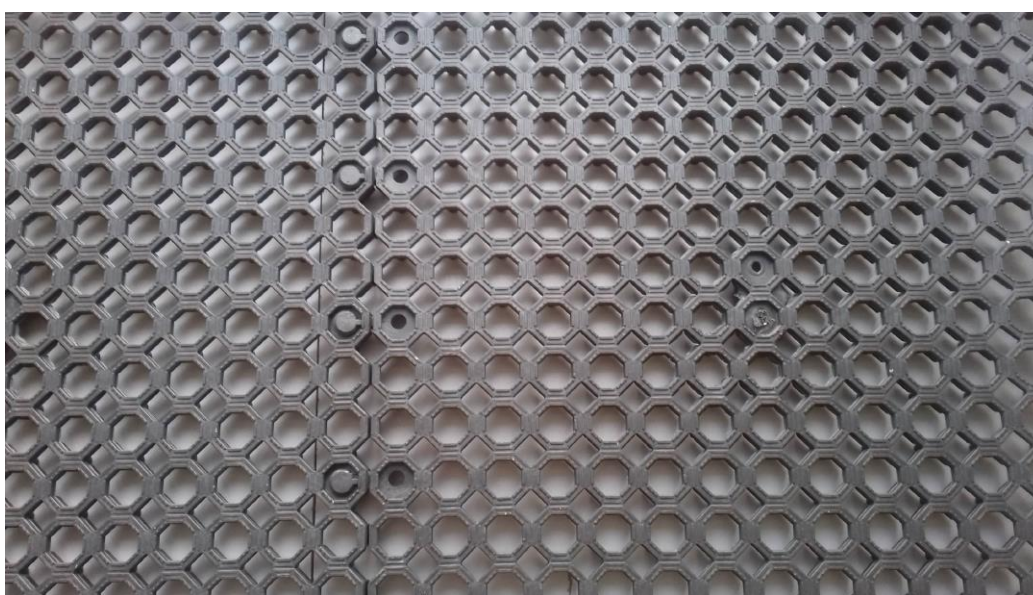


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Appendix I: Sample Photo

Sample No. 2 Rubber mat - Grass Lok



-End of The Report-