

**TESTING LABORATORY****REPORT 26-2327-EN/1**
26-2327**COMPANY**

GRATNELLS INTERNATIONAL, UNIPessoal LDA
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SETUBAL
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PETITIONER

Filipe Almeida

SUBJECT

Study of PAHs of 7 samples.

Electronic signature of the authorized personnel



REPORT CONTENT

Samples

Tests

A.- Determination of polycyclic aromatic hydrocarbons

Terms and conditions

**SAMPLES**

Reference	provided	by
customer		

Blue Tray

AIMPLAS code

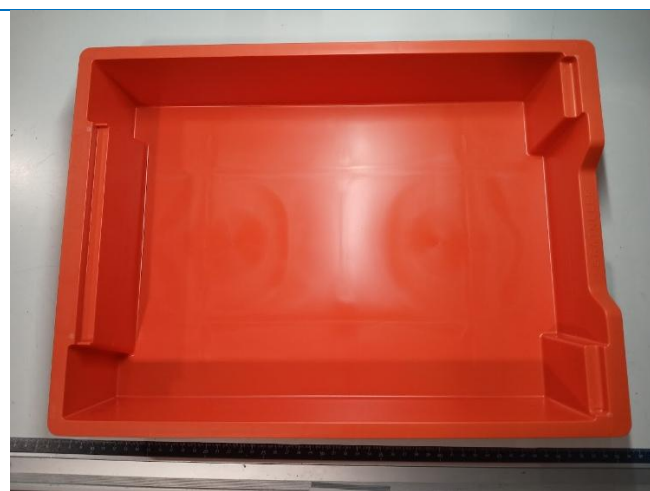
26-2327-1

Description

See photograph

Reception date

2026/07/31



Reference	provided	by
customer		

Orange Tray

AIMPLAS code

26-2327-2

Description

See photograph

Reception date

2026/07/31



Reference	provided	by
customer		

Green Tray

AIMPLAS code

26-2327-3

Description

See photograph

Reception date

2026/07/31



Reference provided by customer

Royal Blue Tray

AIMPLAS code

26-2327-4

Description

See photograph

Reception date

2026/07/31



Reference provided by customer

Yellow Tray

AIMPLAS code

26-2327-5

Description

See photograph

Reception date

2026/07/31



Reference provided by customer

Red Tray

AIMPLAS code

26-2327-6

Description

See photograph

Reception date

2026/07/31



Reference provided by customer
Transparent Lid
AIMPLAS code
26-2327-7
Description
See photograph
Reception date
2026/07/31



TEST A

Determination of polycyclic aromatic hydrocarbons

Test method

Description Analysis performed according to the methodology described in the standard AfPS GS 2019:01

26-2327-1

Blue Tray

Results

Start date: 2026/08/10

End date: 2026/08/31

Table 1

Substance name	CAS- No.	Limit of quantification (mg/kg)	Result (mg/kg)
Naphthalene	91-20-3	0.15	<0.15
Acenaphthylene	208-96-8	0.15	<0.15
Acenaphthene	83-32-9	0.15	<0.15
Fluorene	86-73-7	0.15	<0.15
Phenanthrene	85-01-8	0.15	<0.15
Anthracene	120-12-7	0.15	<0.15
Fluoranthene	206-44-0	0.15	<0.15
Pyrene	129-00-0	0.15	<0.15
Benzo(a)anthracene ¹	56-55-3	0.15	<0.15
Chrysene ¹	218-01-9	0.15	<0.15
Benzo(b)fluoranthene ¹ +	205-99-2 +	0.15	<0.15
Benzo(j)fluoranthene ¹	205-82-3		
Benzo(k)fluoranthene ¹	207-08-9	0.15	<0.15
Benzo(e)pyrene ¹	192-97-2	0.15	<0.15
Benzo(a)pyrene ¹	50-32-8	0.15	<0.15
Indeno(1,2,3-cd)pyrene	193-39-5	0.15	<0.15
Dibenzo(a,h)anthracene ¹	53-70-3	0.15	<0.15
Benzo(ghi)perylene	191-24-2	0.15	<0.15

¹Limit according to regulation (EC) no. 1907/2006 (REACH), annex XVII no. 50:

1 mg/kg – Applies to articles marketed for supply to the general public, if any of their rubber or plastic components come into direct contact or prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

0.5 mg/kg – Applies to toys, including activity toys and childcare articles, on the market, if any of their rubber or plastic components come into direct contact as well as prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.



26-2327-2

Orange Tray

Results

Start date: 2026/08/10

End date: 2026/08/31

Table 2

Substance name	CAS- No.	Limit of quantification (mg/kg)	Result (mg/kg)
Naphthalene	91-20-3	0.15	<0.15
Acenaphthylene	208-96-8	0.15	<0.15
Acenaphthene	83-32-9	0.15	<0.15
Fluorene	86-73-7	0.15	<0.15
Phenanthrene	85-01-8	0.15	<0.15
Anthracene	120-12-7	0.15	<0.15
Fluoranthene	206-44-0	0.15	<0.15
Pyrene	129-00-0	0.15	<0.15
Benzo(a)anthracene ¹	56-55-3	0.15	<0.15
Chrysene ¹	218-01-9	0.15	<0.15
Benzo(b)fluoranthene ¹ +	205-99-2 +	0.15	<0.15
Benzo(j)fluoranthene ¹	205-82-3		
Benzo(k)fluoranthene ¹	207-08-9	0.15	<0.15
Benzo(e)pyrene ¹	192-97-2	0.15	<0.15
Benzo(a)pyrene ¹	50-32-8	0.15	<0.15
Indeno(1,2,3-cd)pyrene	193-39-5	0.15	<0.15
Dibenzo(a,h)anthracene ¹	53-70-3	0.15	<0.15
Benzo(ghi)perylene	191-24-2	0.15	<0.15

¹Limit according to regulation (EC) no. 1907/2006 (REACH), annex XVII no. 50:

1 mg/kg – Applies to articles marketed for supply to the general public, if any of their rubber or plastic components come into direct contact or prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

0.5 mg/kg – Applies to toys, including activity toys and childcare articles, on the market, if any of their rubber or plastic components come into direct contact as well as prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.



26-2327-3

Green Tray

Results

Start date: 2026/08/10

End date: 2026/08/31

Table 3

Substance name	CAS- No.	Limit of quantification (mg/kg)	Result (mg/kg)
Naphthalene	91-20-3	0.15	<0.15
Acenaphthylene	208-96-8	0.15	<0.15
Acenaphthene	83-32-9	0.15	<0.15
Fluorene	86-73-7	0.15	<0.15
Phenanthrene	85-01-8	0.15	<0.15
Anthracene	120-12-7	0.15	<0.15
Fluoranthene	206-44-0	0.15	<0.15
Pyrene	129-00-0	0.15	<0.15
Benzo(a)anthracene ¹	56-55-3	0.15	<0.15
Chrysene ¹	218-01-9	0.15	<0.15
Benzo(b)fluoranthene ¹ +	205-99-2 +	0.15	<0.15
Benzo(j)fluoranthene ¹	205-82-3		
Benzo(k)fluoranthene ¹	207-08-9	0.15	<0.15
Benzo(e)pyrene ¹	192-97-2	0.15	<0.15
Benzo(a)pyrene ¹	50-32-8	0.15	<0.15
Indeno(1,2,3-cd)pyrene	193-39-5	0.15	<0.15
Dibenzo(a,h)anthracene ¹	53-70-3	0.15	<0.15
Benzo(ghi)perylene	191-24-2	0.15	<0.15

¹Limit according to regulation (EC) no. 1907/2006 (REACH), annex XVII no. 50:

1 mg/kg – Applies to articles marketed for supply to the general public, if any of their rubber or plastic components come into direct contact or prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

0.5 mg/kg – Applies to toys, including activity toys and childcare articles, on the market, if any of their rubber or plastic components come into direct contact as well as prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.



26-2327-4

Royal Blue Tray

Results

Start date: 2026/08/10

End date: 2026/08/31

Table 4

Substance name	CAS- No.	Limit of quantification (mg/kg)	Result (mg/kg)
Naphthalene	91-20-3	0.15	<0.15
Acenaphthylene	208-96-8	0.15	<0.15
Acenaphthene	83-32-9	0.15	<0.15
Fluorene	86-73-7	0.15	<0.15
Phenanthrene	85-01-8	0.15	<0.15
Anthracene	120-12-7	0.15	<0.15
Fluoranthene	206-44-0	0.15	<0.15
Pyrene	129-00-0	0.15	<0.15
Benzo(a)anthracene ¹	56-55-3	0.15	<0.15
Chrysene ¹	218-01-9	0.15	<0.15
Benzo(b)fluoranthene ¹ +	205-99-2 +	0.15	<0.15
Benzo(j)fluoranthene ¹	205-82-3		
Benzo(k)fluoranthene ¹	207-08-9	0.15	<0.15
Benzo(e)pyrene ¹	192-97-2	0.15	<0.15
Benzo(a)pyrene ¹	50-32-8	0.15	<0.15
Indeno(1,2,3-cd)pyrene	193-39-5	0.15	<0.15
Dibenzo(a,h)anthracene ¹	53-70-3	0.15	<0.15
Benzo(ghi)perylene	191-24-2	0.15	<0.15

¹Limit according to regulation (EC) no. 1907/2006 (REACH), annex XVII no. 50:

1 mg/kg – Applies to articles marketed for supply to the general public, if any of their rubber or plastic components come into direct contact or prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

0.5 mg/kg – Applies to toys, including activity toys and childcare articles, on the market, if any of their rubber or plastic components come into direct contact as well as prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.



26-2327-5

Yellow Tray

Results

Start date: 2026/08/10

End date: 2026/08/31

Table 5

Substance name	CAS- No.	Limit of quantification (mg/kg)	Result (mg/kg)
Naphthalene	91-20-3	0.15	<0.15
Acenaphthylene	208-96-8	0.15	<0.15
Acenaphthene	83-32-9	0.15	<0.15
Fluorene	86-73-7	0.15	<0.15
Phenanthrene	85-01-8	0.15	<0.15
Anthracene	120-12-7	0.15	<0.15
Fluoranthene	206-44-0	0.15	<0.15
Pyrene	129-00-0	0.15	<0.15
Benzo(a)anthracene ¹	56-55-3	0.15	<0.15
Chrysene ¹	218-01-9	0.15	<0.15
Benzo(b)fluoranthene ¹ +	205-99-2 +	0.15	<0.15
Benzo(j)fluoranthene ¹	205-82-3		
Benzo(k)fluoranthene ¹	207-08-9	0.15	<0.15
Benzo(e)pyrene ¹	192-97-2	0.15	<0.15
Benzo(a)pyrene ¹	50-32-8	0.15	<0.15
Indeno(1,2,3-cd)pyrene	193-39-5	0.15	<0.15
Dibenzo(a,h)anthracene ¹	53-70-3	0.15	<0.15
Benzo(ghi)perylene	191-24-2	0.15	<0.15

¹Limit according to regulation (EC) no. 1907/2006 (REACH), annex XVII no. 50:

1 mg/kg – Applies to articles marketed for supply to the general public, if any of their rubber or plastic components come into direct contact or prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

0.5 mg/kg – Applies to toys, including activity toys and childcare articles, on the market, if any of their rubber or plastic components come into direct contact as well as prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.



26-2327-6

Red Tray

Results

Start date: 2026/08/10

End date: 2026/08/31

Table 6

Substance name	CAS- No.	Limit of quantification (mg/kg)	Result (mg/kg)
Naphthalene	91-20-3	0.15	<0.15
Acenaphthylene	208-96-8	0.15	<0.15
Acenaphthene	83-32-9	0.15	<0.15
Fluorene	86-73-7	0.15	<0.15
Phenanthrene	85-01-8	0.15	<0.15
Anthracene	120-12-7	0.15	<0.15
Fluoranthene	206-44-0	0.15	<0.15
Pyrene	129-00-0	0.15	<0.15
Benzo(a)anthracene ¹	56-55-3	0.15	<0.15
Chrysene ¹	218-01-9	0.15	<0.15
Benzo(b)fluoranthene ¹ +	205-99-2 +	0.15	<0.15
Benzo(j)fluoranthene ¹	205-82-3		
Benzo(k)fluoranthene ¹	207-08-9	0.15	<0.15
Benzo(e)pyrene ¹	192-97-2	0.15	<0.15
Benzo(a)pyrene ¹	50-32-8	0.15	<0.15
Indeno(1,2,3-cd)pyrene	193-39-5	0.15	<0.15
Dibenzo(a,h)anthracene ¹	53-70-3	0.15	<0.15
Benzo(ghi)perylene	191-24-2	0.15	<0.15

¹Limit according to regulation (EC) no. 1907/2006 (REACH), annex XVII no. 50:

1 mg/kg – Applies to articles marketed for supply to the general public, if any of their rubber or plastic components come into direct contact or prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

0.5 mg/kg – Applies to toys, including activity toys and childcare articles, on the market, if any of their rubber or plastic components come into direct contact as well as prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.



26-2327-7

Transparent Lid

Results

Start date: 2026/08/10

End date: 2026/08/31

Table 7

Substance name	CAS- No.	Limit of quantification (mg/kg)	Result (mg/kg)
Naphthalene	91-20-3	0.15	<0.15
Acenaphthylene	208-96-8	0.15	<0.15
Acenaphthene	83-32-9	0.15	<0.15
Fluorene	86-73-7	0.15	<0.15
Phenanthrene	85-01-8	0.15	<0.15
Anthracene	120-12-7	0.15	<0.15
Fluoranthene	206-44-0	0.15	<0.15
Pyrene	129-00-0	0.15	<0.15
Benzo(a)anthracene ¹	56-55-3	0.15	<0.15
Chrysene ¹	218-01-9	0.15	<0.15
Benzo(b)fluoranthene ¹ +	205-99-2 +	0.15	<0.15
Benzo(j)fluoranthene ¹	205-82-3		
Benzo(k)fluoranthene ¹	207-08-9	0.15	<0.15
Benzo(e)pyrene ¹	192-97-2	0.15	<0.15
Benzo(a)pyrene ¹	50-32-8	0.15	<0.15
Indeno(1,2,3-cd)pyrene	193-39-5	0.15	<0.15
Dibenzo(a,h)anthracene ¹	53-70-3	0.15	<0.15
Benzo(ghi)perylene	191-24-2	0.15	<0.15

¹Limit according to regulation (EC) no. 1907/2006 (REACH), annex XVII no. 50:

1 mg/kg – Applies to articles marketed for supply to the general public, if any of their rubber or plastic components come into direct contact or prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

0.5 mg/kg – Applies to toys, including activity toys and childcare articles, on the market, if any of their rubber or plastic components come into direct contact as well as prolonged or short-term repetitive contact with human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.



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