

TEST REPORT No 240101 A

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1. Customer, its address **LLC "PRINTING HOUSE "PARUS", 08681, Kyiv region, Obukhivsky district, village Roslavichy, Nova street 2, Ukraine**

2. Sample identification according to the contract № 178/2024 from 03 April 2024:

Sample name: **Disposable packaging film "PE.F transparent"**

Sample amount 10 m

3. Sample description/photo

Transparent polymer film



4. Testing time	Received 17/05/2024	Started 17/05/2024	Finished 03/06/2024
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5. Test results and methods

5.1 Overall migration

Tested parameter	Test result	Test method
Overall migration to food simulant A (Ethanol 10%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant B (Acetic acid 3%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant C (Ethanol 20%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant D1 (Ethanol 50%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant D2 (Vegetable oil)	< 2 mg/dm ² surface area of sample	EN 1186-2:2022 * Method 3

Overall migration tests were carried out by filling pouches made of sample material with corresponding food simulants and exposing 10 days at a temperature of +40 °C.

Requirements:

- The overall migration limit – 10 mg/dm² (Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food)

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5.2 Specific migration of primary aromatic amines to food simulant B (Acetic acid 3%)

Test method: T-138-48-1:2022 * (High performance liquid chromatography/mass spectrometry)

Tested primary aromatic amine	CAS Number	Test result
biphenyl-4-ylamine 4-aminobiphenyl xenylamine	92-67-1	< 0.002 mg/kg food simulant
benzidine	92-87-5	< 0.002 mg/kg food simulant
4-chloro-o-toluidine	95-69-2	< 0.002 mg/kg food simulant
2-naphthylamine	91-59-8	< 0.002 mg/kg food simulant
o-aminoazotoluene 4-amino-2',3 dimethylazobenzene 4-o-tolylazo-o-toluidine	97-56-3	< 0.002 mg/kg food simulant
5-nitro-o-toluidine	99-55-8	< 0.002 mg/kg food simulant
4-chloroaniline	106-47-8	< 0.002 mg/kg food simulant
4-methoxy-m-phenylenediamine	615-05-4	< 0.002 mg/kg food simulant
4,4'-methylenedianiline 4,4'-diaminodiphenylmethane	101-77-9	< 0.002 mg/kg food simulant
3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4' ylenediamine	91-94-1	< 0.002 mg/kg food simulant
3,3'-dimethoxybenzidine o-dianisidine	119-90-4	< 0.002 mg/kg food simulant
3,3'-dimethylbenzidine 4,4'-bi-o-toluidine	119-93-7	< 0.002 mg/kg food simulant
4,4'-methylenedi-o-toluidine	838-88-0	< 0.002 mg/kg food simulant
6-methoxy-m-toluidine p-cresidine	120-71-8	< 0.002 mg/kg food simulant
4,4'-methylene-bis-(2-chloro-aniline) 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	< 0.002 mg/kg food simulant
4,4'-oxydianiline	101-80-4	< 0.002 mg/kg food simulant
4,4'-thiodianiline	139-65-1	< 0.002 mg/kg food simulant
o-toluidine 2-aminotoluene	95-53-4	< 0.002 mg/kg food simulant
4-methyl-m-phenylenediamine	95-80-7	< 0.002 mg/kg food simulant
2,4,5-trimethylaniline	137-17-7	< 0.002 mg/kg food simulant
o-anisidine 2-methoxyaniline	90-04-0	< 0.002 mg/kg food simulant
4-amino azobenzene	60-09-3	< 0.002 mg/kg food simulant

The specific migration test was carried out by filling sample pouches made of sample material with 3% acetic acid and exposing 10 days at a temperature of +60 °C. Surface/volume ratio in specific migration test was 6:1.

Requirements:

- Primary aromatic amines shall not migrate or shall not otherwise be released from plastic materials and articles into food or food simulant. They shall not be detectable using analytical equipment with a limit of detection of 0.002 mg/kg food or food simulant applied to each individual primary aromatic amine. (Commission Regulation (EU) No 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food).

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5.3 Specific migration of bisphenol A to food simulant B (Acetic acid 3%)

Tested parameter	Test result	Test method
Migration of bisphenol A to food simulant B (Acetic acid 3%)	< 0.05 mg/kg food simulant	LVS CEN/TS 13130-13 2005

The specific migration test was carried out by filling pouches made of sample material with 3% acetic acid and exposing 10 days at a temperature of +60 °C. Surface/volume ratio in specific migration test was 6:1.

Requirements:

- Specific migration limit for bisphenol A is 0.05 mg per kg of food simulant (Commission Regulation (EU) 2018/213 of 12 February 2018 on the use of bisphenol A in varnishes and coatings intended to come into contact with food and amending Regulation (EU) No 10/2011 as regards the use of that substance in plastic food materials).

* The method is not included in the scope of accreditation

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1. Customer, its address **LLC "PRINTING HOUSE "PARUS", 08681, Kyiv region, Obukhivsky district, village Roslavichy, Nova street 2, Ukraine**
2. Sample identification according to the contract № 178/2024 from 03 April 2024:
 Sample name: **Disposable packaging film, brand "L"**
 Sample amount **10 m**
3. Sample description/photo

White polymer film with colour printing on one side.



4. Testing time
- | | | |
|------------|------------|------------|
| Received | Started | Finished |
| 17/05/2024 | 17/05/2024 | 03/06/2024 |

5. Test results and methods

Testing was performed on the unprinted side of the film sample.

5.1 Overall migration

Tested parameter	Test result	Test method
Overall migration to food simulant A (Ethanol 10%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant B (Acetic acid 3%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant C (Ethanol 20%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant D1 (Ethanol 50%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant D2 (Vegetable oil)	< 2 mg/dm ² surface area of sample	EN 1186-2:2022 * Method 3

Overall migration tests were carried out by filling pouches made of sample material with corresponding food simulants and exposing 10 days at a temperature of +40 °C.

Requirements:

- The overall migration limit – 10 mg/dm² (Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food)

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5.2 Specific migration of primary aromatic amines to food simulant B (Acetic acid 3%)

Test method: T-138-48-1:2022 * (High performance liquid chromatography/mass spectrometry)

Tested primary aromatic amine	CAS Number	Test result
biphenyl-4-ylamine 4-aminobiphenyl xenylamine	92-67-1	< 0.002 mg/kg food simulant
benzidine	92-87-5	< 0.002 mg/kg food simulant
4-chloro-o-toluidine	95-69-2	< 0.002 mg/kg food simulant
2-naphthylamine	91-59-8	< 0.002 mg/kg food simulant
o-aminoazotoluene 4-amino-2',3 dimethylazobenzene 4-o-tolylazo-o-toluidine	97-56-3	< 0.002 mg/kg food simulant
5-nitro-o-toluidine	99-55-8	< 0.002 mg/kg food simulant
4-chloroaniline	106-47-8	< 0.002 mg/kg food simulant
4-methoxy-m-phenylenediamine	615-05-4	< 0.002 mg/kg food simulant
4,4'-methylenedianiline 4,4'-diaminodiphenylmethane	101-77-9	< 0.002 mg/kg food simulant
3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4' ylenediamine	91-94-1	< 0.002 mg/kg food simulant
3,3'-dimethoxybenzidine o-dianisidine	119-90-4	< 0.002 mg/kg food simulant
3,3'-dimethylbenzidine 4,4'-bi-o-toluidine	119-93-7	< 0.002 mg/kg food simulant
4,4'-methylenedi-o-toluidine	838-88-0	< 0.002 mg/kg food simulant
6-methoxy-m-toluidine p-cresidine	120-71-8	< 0.002 mg/kg food simulant
4,4'-methylene-bis-(2-chloro-aniline) 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	< 0.002 mg/kg food simulant
4,4'-oxydianiline	101-80-4	< 0.002 mg/kg food simulant
4,4'-thiodianiline	139-65-1	< 0.002 mg/kg food simulant
o-toluidine 2-aminotoluene	95-53-4	< 0.002 mg/kg food simulant
4-methyl-m-phenylenediamine	95-80-7	< 0.002 mg/kg food simulant
2,4,5-trimethylaniline	137-17-7	< 0.002 mg/kg food simulant
o-anisidine 2-methoxyaniline	90-04-0	< 0.002 mg/kg food simulant
4-amino azobenzene	60-09-3	< 0.002 mg/kg food simulant

The specific migration test was carried out by filling sample pouches made of sample material with 3% acetic acid and exposing 10 days at a temperature of +60 °C. Surface/volume ratio in specific migration test was 6:1.

Requirements:

- Primary aromatic amines shall not migrate or shall not otherwise be released from plastic materials and articles into food or food simulant. They shall not be detectable using analytical equipment with a limit of detection of 0.002 mg/kg food or food simulant applied to each individual primary aromatic amine. (Commission Regulation (EU) No 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food).

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5.3 Specific migration of bisphenol A to food simulant B (Acetic acid 3%)

Tested parameter	Test result	Test method
Migration of bisphenol A to food simulant B (Acetic acid 3%)	< 0.05 mg/kg food simulant	LVS CEN/TS 13130-13 2005

The specific migration test was carried out by filling pouches made of sample material with 3% acetic acid and exposing 10 days at a temperature of +60 °C. Surface/volume ratio in specific migration test was 6:1.

Requirements:

- Specific migration limit for bisphenol A is 0.05 mg per kg of food simulant (Commission Regulation (EU) 2018/213 of 12 February 2018 on the use of bisphenol A in varnishes and coatings intended to come into contact with food and amending Regulation (EU) No 10/2011 as regards the use of that substance in plastic food materials).

** The method is not included in the scope of accreditation*

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1. Customer, **LLC "PRINTING HOUSE "PARUS", 08681, Kyiv region, Obukhivsky**
 its address **district, village Roslavichy, Nova street 2, Ukraine**

2. Sample identification according to the contract № 178/2024 from 03 April 2024:

Sample name: **Disposable packaging film "PE.F white"**

Sample amount 10 m

3. Sample description/photo

White polymer film



4. Testing time
 Received 17/05/2024 Started 17/05/2024 Finished 03/06/2024

5. Test results and methods

5.1 Overall migration

Tested parameter	Test result	Test method
Overall migration to food simulant A (Ethanol 10%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant B (Acetic acid 3%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant C (Ethanol 20%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant D1 (Ethanol 50%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant D2 (Vegetable oil)	< 2 mg/dm ² surface area of sample	EN 1186-2:2022 * Method 3

Overall migration tests were carried out by filling pouches made of sample material with corresponding food simulants and exposing 10 days at a temperature of +40 °C.

Requirements:

- The overall migration limit – 10 mg/dm² (Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food)

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5.2 Specific migration of primary aromatic amines to food simulant B (Acetic acid 3%)

Test method: T-138-48-1:2022 * (High performance liquid chromatography/mass spectrometry)

Tested primary aromatic amine	CAS Number	Test result
biphenyl-4-ylamine 4-aminobiphenyl xenylamine	92-67-1	< 0.002 mg/kg food simulant
benzidine	92-87-5	< 0.002 mg/kg food simulant
4-chloro-o-toluidine	95-69-2	< 0.002 mg/kg food simulant
2-naphthylamine	91-59-8	< 0.002 mg/kg food simulant
o-aminoazotoluene 4-amino-2',3 dimethylazobenzene 4-o-tolylazo-o-toluidine	97-56-3	< 0.002 mg/kg food simulant
5-nitro-o-toluidine	99-55-8	< 0.002 mg/kg food simulant
4-chloroaniline	106-47-8	< 0.002 mg/kg food simulant
4-methoxy-m-phenylenediamine	615-05-4	< 0.002 mg/kg food simulant
4,4'-methylenedianiline 4,4'-diaminodiphenylmethane	101-77-9	< 0.002 mg/kg food simulant
3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4' ylenediamine	91-94-1	< 0.002 mg/kg food simulant
3,3'-dimethoxybenzidine o-dianisidine	119-90-4	< 0.002 mg/kg food simulant
3,3'-dimethylbenzidine 4,4'-bi-o-toluidine	119-93-7	< 0.002 mg/kg food simulant
4,4'-methylenedi-o-toluidine	838-88-0	< 0.002 mg/kg food simulant
6-methoxy-m-toluidine p-cresidine	120-71-8	< 0.002 mg/kg food simulant
4,4'-methylene-bis-(2-chloro-aniline) 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	< 0.002 mg/kg food simulant
4,4'-oxydianiline	101-80-4	< 0.002 mg/kg food simulant
4,4'-thiodianiline	139-65-1	< 0.002 mg/kg food simulant
o-toluidine 2-aminotoluene	95-53-4	< 0.002 mg/kg food simulant
4-methyl-m-phenylenediamine	95-80-7	< 0.002 mg/kg food simulant
2,4,5-trimethylaniline	137-17-7	< 0.002 mg/kg food simulant
o-anisidine 2-methoxyaniline	90-04-0	< 0.002 mg/kg food simulant
4-amino azobenzene	60-09-3	< 0.002 mg/kg food simulant

The specific migration test was carried out by filling sample pouches made of sample material with 3% acetic acid and exposing 10 days at a temperature of +60 °C. Surface/volume ratio in specific migration test was 6:1.

Requirements:

- Primary aromatic amines shall not migrate or shall not otherwise be released from plastic materials and articles into food or food simulant. They shall not be detectable using analytical equipment with a limit of detection of 0.002 mg/kg food or food simulant applied to each individual primary aromatic amine. (Commission Regulation (EU) No 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food).

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5.3 Specific migration of bisphenol A to food simulant B (Acetic acid 3%)

Tested parameter	Test result	Test method
Migration of bisphenol A to food simulant B (Acetic acid 3%)	< 0.05 mg/kg food simulant	LVS CEN/TS 13130-13 2005

The specific migration test was carried out by filling pouches made of sample material with 3% acetic acid and exposing 10 days at a temperature of +60 °C. Surface/volume ratio in specific migration test was 6:1.

Requirements:

- Specific migration limit for bisphenol A is 0.05 mg per kg of food simulant (Commission Regulation (EU) 2018/213 of 12 February 2018 on the use of bisphenol A in varnishes and coatings intended to come into contact with food and amending Regulation (EU) No 10/2011 as regards the use of that substance in plastic food materials).

* The method is not included in the scope of accreditation

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1. Customer, its address **LLC "PRINTING HOUSE "PARUS", 08681, Kyiv region, Obukhivsky district, village Roslavichy, Nova street 2, Ukraine**
2. Sample identification according to the contract № 178/2024 from 03 April 2024:
 Sample name: **Disposable packaging film, brand "L"**
 Sample amount **10 m**
3. Sample description/photo



- | | | | |
|-----------------|------------------------|-----------------------|------------------------|
| 4. Testing time | Received
17/05/2024 | Started
17/05/2024 | Finished
03/06/2024 |
|-----------------|------------------------|-----------------------|------------------------|

5. Test results and methods

Testing was performed on the unprinted side of the film sample.

5.1 Overall migration

Tested parameter	Test result	Test method
Overall migration to food simulant A (Ethanol 10%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant B (Acetic acid 3%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant C (Ethanol 20%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant D1 (Ethanol 50%)	< 2 mg/dm ² surface area of sample	EN 1186-3:2022 Method 3
Overall migration to food simulant D2 (Vegetable oil)	< 2 mg/dm ² surface area of sample	EN 1186-2:2022 * Method 3

Overall migration tests were carried out by filling pouches made of sample material with corresponding food simulants and exposing 10 days at a temperature of +40 °C.

Requirements:

- The overall migration limit – 10 mg/dm² (Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food)

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5.2 Specific migration of primary aromatic amines to food simulant B (Acetic acid 3%)

Test method: T-138-48-1:2022 * (High performance liquid chromatography/mass spectrometry)

Tested primary aromatic amine	CAS Number	Test result
biphenyl-4-ylamine 4-aminobiphenyl xenylamine	92-67-1	< 0.002 mg/kg food simulant
benzidine	92-87-5	< 0.002 mg/kg food simulant
4-chloro-o-toluidine	95-69-2	< 0.002 mg/kg food simulant
2-naphthylamine	91-59-8	< 0.002 mg/kg food simulant
o-aminoazotoluene 4-amino-2',3 dimethylazobenzene 4-o-tolylazo-o-toluidine	97-56-3	< 0.002 mg/kg food simulant
5-nitro-o-toluidine	99-55-8	< 0.002 mg/kg food simulant
4-chloroaniline	106-47-8	< 0.002 mg/kg food simulant
4-methoxy-m-phenylenediamine	615-05-4	< 0.002 mg/kg food simulant
4,4'-methylenedianiline 4,4'-diaminodiphenylmethane	101-77-9	< 0.002 mg/kg food simulant
3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4' ylenediamine	91-94-1	< 0.002 mg/kg food simulant
3,3'-dimethoxybenzidine o-dianisidine	119-90-4	< 0.002 mg/kg food simulant
3,3'-dimethylbenzidine 4,4'-bi-o-toluidine	119-93-7	< 0.002 mg/kg food simulant
4,4'-methylenedi-o-toluidine	838-88-0	< 0.002 mg/kg food simulant
6-methoxy-m-toluidine p-cresidine	120-71-8	< 0.002 mg/kg food simulant
4,4'-methylene-bis-(2-chloro-aniline) 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	< 0.002 mg/kg food simulant
4,4'-oxydianiline	101-80-4	< 0.002 mg/kg food simulant
4,4'-thiodianiline	139-65-1	< 0.002 mg/kg food simulant
o-toluidine 2-aminotoluene	95-53-4	< 0.002 mg/kg food simulant
4-methyl-m-phenylenediamine	95-80-7	< 0.002 mg/kg food simulant
2,4,5-trimethylaniline	137-17-7	< 0.002 mg/kg food simulant
o-anisidine 2-methoxyaniline	90-04-0	< 0.002 mg/kg food simulant
4-amino azobenzene	60-09-3	< 0.002 mg/kg food simulant

The specific migration test was carried out by filling sample pouches made of sample material with 3% acetic acid and exposing 10 days at a temperature of +60 °C. Surface/volume ratio in specific migration test was 6:1.

Requirements:

- Primary aromatic amines shall not migrate or shall not otherwise be released from plastic materials and articles into food or food simulant. They shall not be detectable using analytical equipment with a limit of detection of 0.002 mg/kg food or food simulant applied to each individual primary aromatic amine. (Commission Regulation (EU) No 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food).

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5.3 Specific migration of bisphenol A to food simulant B (Acetic acid 3%)

Tested parameter	Test result	Test method
Migration of bisphenol A to food simulant B (Acetic acid 3%)	< 0.05 mg/kg food simulant	LVS CEN/TS 13130-13 2005

The specific migration test was carried out by filling pouches made of sample material with 3% acetic acid and exposing 10 days at a temperature of +60 °C. Surface/volume ratio in specific migration test was 6:1.

Requirements:

- Specific migration limit for bisphenol A is 0.05 mg per kg of food simulant (Commission Regulation (EU) 2018/213 of 12 February 2018 on the use of bisphenol A in varnishes and coatings intended to come into contact with food and amending Regulation (EU) No 10/2011 as regards the use of that substance in plastic food materials).

* *The method is not included in the scope of accreditation*

Laboratory Head Deputy
05/06/2024



N.Milcs