

Food Contact Plastics
**Certificate of Conformity with the Requirements of EU
 Regulation 10/2011, as amended by EU Regulations 321/2011,
 1282/2011, 1183/2012, 202/2014, 174/2015, 1416/2016, 752/2017,
 79/2018, 213/2018, 831/2018, 37/2019, 2019/1338, 1245/2020 and
 1442/2023**
Certificate no: 2017/5624D
Product Name: 'EE-1801-AAB, EE-1802-AAB, EE-1801-BSB, EE-1802-BSB and EM-2420-AAB LLDPE Grades'

Date of Issue: 8 August 2017 **SMP Reference No:** 17A12J6493
Reissued: 15 November 2023

**Manufacturer/
 Supplier:** EthydcO The Egyptian Ethylene and Derivatives Company
 36K, Alex-Cairo Desert Road, Elnahda - Amerya, Alexandria Egypt

Samples manufactured from the above resins or closely related resins have been tested for overall migration with the simulants and test conditions listed below. The food simulants and test conditions are those defined in EU Regulation 10/2011.

Test Conditions		
Food Simulants	Duration	Temp/°C
Simulants A, B and D2	10 days	40°C

The overall migration results obtained were found to be below the overall migration limits defined in EU Regulation 10/2011. Additionally, based on a disclosure from the manufacturer, Smithers have carried out an audit of the formulation of the above resin. All monomers and additives contained in the formulation are approved for use in food contact plastics without restrictions under EU Regulation 10/2011 as amended by EU Regulations 321/2011, 1282/2011, 1183/2012, 202/2014, 174/2015, 1416/2016, 752/2017, 79/2018, 213/2018, 831/2018, 37/2019, 2019/1338, 1245/2020 and 1442/2023.

The product/s contain/s the following substances which are subject to specific migration limits under this legislation.

FCM Number	Name	SML or Dual Use	Comment
1 FCM 433	octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	SML = 6 mg/kg	All Above Products
2 Zinc salt of FCM 106	Zinc Stearate	SML = 5 mg/kg as Zn	All Above Products
3 FCM 19	N,N-bis(2-hydroxyethyl)alkyl(C8-C18)amine	SML = 1.2 mg/kg	EE-1801-AAB, EE1802-AAB, EE-1801-BSB and EE-1802-BSB only
4 -	Chromium	SML = None Detectable	All Above Products

Based on measurements and/or calculations using an EU accepted diffusion model, Smithers have determined that these migration limits will be respected for a typical sample (2 mm thick) using exposure conditions of 10 days at 60°C and the conventional EU ratio of 6 dm² of packaging per kg of food.

Certificate no: 2017/5624D

Based on a disclosure to Smithers, the formulation of the above resin does not include any multiple function additives. (NB Multiple function additives are defined as those which are also approved for direct addition into foods, and which would therefore be subject to separate food regulations).

The above product therefore fully meets the requirements of EU Regulation 10/2011, as amended for use with all classes of foodstuff for;

- (a) Storage above 6 months at room temperature and below, and/or
- (b) Hot-fill conditions and/or heating up to $70^{\circ}\text{C} \leq T \leq 100^{\circ}\text{C}$ for maximum $t = 120/2^{((T-70)/10)}$ minutes.

The product therefore also meets the safety requirements laid out in Article III of EC Regulation 1935(2004) under the above conditions of use.

Users of this resin are reminded that EU Regulation 10/2011 relates to finished articles/materials manufactured from plastics. Users of the above resin are therefore responsible for ensuring that their finished products comply with all applicable migration limits, by conducting appropriate tests on their finished products. Users should pay particular attention to the food types and temperature conditions under which the finished product will be used and conduct appropriate migration tests using conditions selected with the guidance of EU Regulation 10/2011. Furthermore, users should also ensure that their finished products do not bring about an unacceptable change in the taste or odour of food products, as also required by article III of EC Regulation 1935(2004).



Certified by: **Allison Chambers**
Principal Chemist, Food Contact Testing

Food Contact Plastics

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Certificate no: 2017/5625D

Product Name: 'EM-6308-UV, EM-5204-UVH and EM-5420-AAH Injection Molding HDPE Grades'

Date of Issue: 8 August 2017 **SMP Reference No:** 17A12J6493
Reviewed: 15 November 2023

Manufacturer/Supplier: EthydcO The Egyptian Ethylene and Derivatives Company
 36K, Alex-Cairo Desert Road, Elnahda - Amerya, Alexandria Egypt

Samples manufactured from the above resins or closely related resins have been tested for overall migration with the simulants and test conditions listed below. The food simulants and test conditions are those defined in EU Regulation 10/2011.

Test Conditions		
Food Simulants	Duration	Temp/°C
Simulants A, B and D2	10 days	40°C

The overall migration results obtained were found to be below the overall migration limits defined in EU Regulation 10/2011. Additionally, based on a disclosure from the manufacturer, Smithers have carried out an audit of the formulation of the above resin. All monomers and additives contained in the formulation are approved for use in food contact plastics without restrictions under EU Regulation 10/2011 as amended by EU Regulations 321/2011, 1282/2011, 1183/2012, 202/2014, 174/2015, 1416/2016, 752/2017, 79/2018, 213/2018, 831/2018, 37/2019, 2019/1338, 1245/2020 and 1442/2023.

The product/s contain/s the following substances which are subject to specific migration limits under this legislation and/or classed as dual use additives.

	FCM Number	Name	SML or Dual Use	Comment
1	FCM 356	1-hexene	SML = 3 mg/kg	EM-5204-UVH and EM-5420-AAH only
2	FCM 433	octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	SML = 6 mg/kg	All Above Products
3	Zinc salt of FCM 106	Zinc Stearate	SML = 5 mg/kg as Zn	All Above Products
4	FCM 716	1-(2-hydroxyethyl)-4-hydroxy-2,2,6,6-tetramethyl piperidinesuccinic acid, dimethyl ester, copolymer	SML = 30 mg/kg	EM-6308-UV and EM-5204-UVH only
5	-	Chromium	SML = None Detectable	All Above Products

Based on measurements and/or calculations using an EU accepted diffusion model, Smithers have determined that these migration limits will be respected for a typical sample (2 mm thick) using exposure conditions of 10 days at 60°C and the conventional EU ratio of 6 dm² of packaging per kg of food.

Certificate no: 2017/5625D

Based on a disclosure to Smithers, the formulation of the above resin does not include any multiple function additives. (NB Multiple function additives are defined as those which are also approved for direct addition into foods and which would therefore be subject to separate food regulations).

The above product therefore fully meets the requirements of EU Regulation 10/2011, as amended for use with all classes of foodstuff for;

- (a) Storage above 6 months at room temperature and below, and/or
- (b) Hot-fill conditions and/or heating up to $70^{\circ}\text{C} \leq T \leq 100^{\circ}\text{C}$ for maximum $t = 120/2^{((T-70)/10)}$ minutes.

The product therefore also meets the safety requirements laid out in Article III of EC Regulation 1935(2004) under the above conditions of use.

Users of these resins are reminded that EU Regulation 10/2011 relates to finished articles/materials manufactured from plastics. Users of the above resins are therefore responsible for ensuring that their finished products comply with all applicable migration limits, by conducting appropriate tests on their finished products. Users should pay particular attention to the food types and temperature conditions under which the finished product will be used and conduct appropriate migration tests using conditions selected with the guidance of EU Regulation 10/2011. Furthermore, users should also ensure that their finished products do not bring about an unacceptable change in the taste or odour of food products, as also required by article III of EC Regulation 1935(2004).



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 79/2018, 213/2018, 831/2018, 37/2019, 2019/1338, 1245/2020 and
 1442/2023**

Certificate no: 2017/5626D

Product Name: 'EM-3405-UVH Rotomoulding MDPE Grade'

Date of Issue: 8 August 2017

SMP Reference No: 17A12J6493

Reviewed: 15 November 2023

Manufacturer/

Supplier:

Ethydco The Egyptian Ethylene and Derivatives Company
 36K, Alex-Cairo Desert Road, Elnahda - Amerya, Alexandria Egypt

Samples manufactured from the above resins or closely related resins have been tested for overall migration with the simulants and test conditions listed below. The food simulants and test conditions are those defined in EU Regulation 10/2011.

Test Conditions		
Food Simulants	Duration	Temp/°C
Simulants A, B and D2	10 days	40°C

The overall migration results obtained were found to be below the overall migration limits defined in EU Regulation 10/2011. Additionally, based on a disclosure from the manufacturer, Smithers have carried out an audit of the formulation of the above resin. All monomers and additives contained in the formulation are approved for use in food contact plastics without restrictions under EU Regulation 10/2011 as amended by EU Regulations 321/2011, 1282/2011, 1183/2012, 202/2014, 174/2015, 1416/2016, 752/2017, 79/2018, 213/2018, 831/2018, 37/2019, 2019/1338, 1245/2020 and 1442/2023.

The product/s contain/s the following substances which are subject to specific migration limits under this legislation.

	FCM Number	Name	SML or Dual Use
1	FCM 356	1-hexene	SML = 3 mg/kg
2	FCM 433	octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	SML = 6 mg/kg
3	Zinc salt of FCM 106	Zinc Stearate	SML = 5 mg/kg as Zn
4	FCM 716	1-(2-hydroxyethyl)-4-hydroxy-2,2,6,6-tetramethyl piperidinesuccinic acid, dimethyl ester, copolymer	SML = 30 mg/kg
5	-	Chromium	SML = None Detectable

Based on measurements and/or calculations using an EU accepted diffusion model, Smithers have determined that these migration limits will be respected for a typical sample (2 mm thick) using exposure conditions of 10 days at 60°C and the conventional EU ratio of 6 dm² of packaging per kg of food.

Based on a disclosure to Smithers, the formulation of the above resin does not include any multiple function additives. (NB Multiple function additives are defined as those which are also approved for direct addition into foods and which would therefore be subject to separate food regulations).

Certificate no: 2017/5626D

The above product therefore fully meets the requirements of EU Regulation 10/2011, as amended for use with all classes of foodstuff for;

- (a) Storage above 6 months at room temperature and below, and/or
- (b) Hot-fill conditions and/or heating up to $70^{\circ}\text{C} \leq T \leq 100^{\circ}\text{C}$ for maximum $t = 120/2^{((T-70)/10)}$ minutes.

The product therefore also meets the safety requirements laid out in Article III of EC Regulation 1935(2004) under the above conditions of use.

Users of this resin are reminded that EU Regulation 10/2011 relates to finished articles/materials manufactured from plastics. Users of the above resin are therefore responsible for ensuring that their finished products comply with all applicable migration limits, by conducting appropriate tests on their finished products. Users should pay particular attention to the food types and temperature conditions under which the finished product will be used and conduct appropriate migration tests using conditions selected with the guidance of EU Regulation 10/2011. Furthermore, users should also ensure that their finished products do not bring about an unacceptable change in the taste or odour of food products, as also required by article III of EC Regulation 1935(2004).



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Certificate no: 2017/5627D

Product Name: 'EE-3914-AAH, EE-4811-AAH, EE-3916-AAH and EM-4810-AAH MDPE and HDPE Grades'

Date of Issue: 8 August 2017
Reviewed: 15 November 2023

SMP Reference No: 17A12J6493

Supplier: Ethydco The Egyptian Ethylene and Derivatives Company
 36K, Alex-Cairo Desert Road, Elnahda - Amerya, Alexandria Egypt

Samples manufactured from the above resins or closely related resins have been tested for overall migration with the simulants and test conditions listed below. The food simulants and test conditions are those defined in EU Regulation 10/2011.

Food Simulants	Test Conditions	
	Duration	Temp/°C
Simulants A, B and D2	10 days	40°C

The overall migration results obtained were found to be below the overall migration limits defined in EU Regulation 10/2011. Additionally, based on a disclosure from the manufacturer, Smithers have carried out an audit of the formulation of the above resin. All monomers and additives contained in the formulation are approved for use in food contact plastics without restrictions under EU Regulation 10/2011 as amended by EU Regulations 321/2011, 1282/2011, 1183/2012, 202/2014, 174/2015, 1416/2016, 752/2017, 79/2018, 213/2018, 831/2018, 37/2019, 2019/1338, 1245/2020 and 1442/2023.

The product/s contain/s the following substances which are subject to specific migration limits under this legislation.

	FCM Number	Name	SML or Dual Use	Comment
1	Zinc salt of FCM 106	Zinc Stearate	SML = 5 mg/kg as Zn	All Above Products
2	-	Chromium	SML = None Detectable	All Above Products

Based on measurements and/or calculations using an EU accepted diffusion model, Smithers have determined that these migration limits will be respected for a typical sample (2 mm thick) using exposure conditions of 10 days at 60°C and the conventional EU ratio of 6 dm² of packaging per kg of food.

Based on a disclosure to Smithers, the formulation of the EE-3914-AAH, EE-3916-AAH and EM-4810-AAH resins do not include any multiple function additives. (NB Multiple function additives are defined as those which are also approved for direct addition into foods and which would therefore be subject to separate food regulations). The EE-4811-AAH resin contains a single dual use additive; calcium stearate, FCM106, E 572.

Certificate no: 2017/5627D

The above product therefore fully meets the requirements of EU Regulation 10/2011, as amended for use with all classes of foodstuff for;

- (a) Storage above 6 months at room temperature and below, and/or
- (b) Hot-fill conditions and/or heating up to $70^{\circ}\text{C} \leq T \leq 100^{\circ}\text{C}$ for maximum $t = 120/2^{((T-70)/10)}$ minutes.

The product therefore also meets the safety requirements laid out in Article III of EC Regulation 1935(2004) under the above conditions of use.

Users of these resins are reminded that EU Regulation 10/2011 relates to finished articles/materials manufactured from plastics. Users of the above resins are therefore responsible for ensuring that their finished products comply with all applicable migration limits, by conducting appropriate tests on their finished products. Users should pay particular attention to the food types and temperature conditions under which the finished product will be used and conduct appropriate migration tests using conditions selected with the guidance of EU Regulation 10/2011. Furthermore, users should also ensure that their finished products do not bring about an unacceptable change in the taste or odour of food products, as also required by article III of EC Regulation 1935(2004).



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Certificate no: 2017/5628D

Product Name: 'EM-5333-AAH and EM-4925-AAH HDPE Blowmolding Grades'
Date of Issue: 8 August 2017 **SMP Reference No:** 17A12J6493
Reviewed: 15 November 2023

Manufacturer/ Supplier: EthydcO The Egyptian Ethylene and Derivatives Company
 36K, Alex-Cairo Desert Road, Elnahda - Amerya, Alexandria Egypt

Samples manufactured from the above resins or closely related resins have been tested for overall migration with the simulants and test conditions listed below. The food simulants and test conditions are those defined in EU Regulation 10/2011.

Test Conditions		
Food Simulants	Duration	Temp/°C
Simulants A, B and D2	10 days	40°C

The overall migration results obtained were found to be below the overall migration limits defined in EU Regulation 10/2011. Additionally, based on a disclosure from the manufacturer, Smithers have carried out an audit of the formulation of the above resin. All monomers and additives contained in the formulation are approved for use in food contact plastics without restrictions under EU Regulation 10/2011 as amended by EU Regulations 321/2011, 1282/2011, 1183/2012, 202/2014, 174/2015, 1416/2016, 752/2017, 79/2018, 213/2018, 831/2018, 37/2019, 2019/1338, 1245/2020 and 1442/2023.

The product/s contain/s the following substances which are subject to specific migration limits under this legislation and/or classed as dual use additives.

FCM Number	Name	SML or Dual Use	Comment
-	Chromium	SML = None Detectable	All Above Products


The above product therefore fully meets the requirements of EU Regulation 10/2011, as amended for use with all classes of foodstuff for;

- (a) Storage above 6 months at room temperature and below, and/or
- (b) Hot-fill conditions and/or heating up to $70^{\circ}\text{C} \leq T \leq 100^{\circ}\text{C}$ for maximum $t = 120/2^{((T-70)/10)}$ minutes.

Certificate no: 2017/5628D

The product therefore also meets the safety requirements laid out in Article III of EC Regulation 1935(2004) under the above conditions of use.

Users of these resins are reminded that EU Regulation 10/2011 relates to finished articles/materials manufactured from plastics. Users of the above resins are therefore responsible for ensuring that their finished products comply with all applicable migration limits, by conducting appropriate tests on their finished products. Users should pay particular attention to the food types and temperature conditions under which the finished product will be used and conduct appropriate migration tests using conditions selected with the guidance of EU Regulation 10/2011. Furthermore, users should also ensure that their finished products do not bring about an unacceptable change in the taste or odour of food products, as also required by article III of EC Regulation 1935(2004).



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Certificate no: 2017/5629D

Product Name: 'bEE-4909-AAH and bEE-4906-AAH HDPE Grades'

Date of Issue: 8 August 2017

SMP Reference No: 17A12J6493

Reviewed: 15 November 2023

Manufacturer/

Supplier: Ethydco The Egyptian Ethylene and Derivatives Company
36K, Alex-Cairo Desert Road, Elnahda - Amerya, Alexandria Egypt

Samples manufactured from the above resins or closely related resins have been tested for overall migration with the simulants and test conditions listed below. The food simulants and test conditions are those defined in EU Regulation 10/2011.

Food Simulants	Test Conditions	
	Duration	Temp/°C
Simulants A, B and D2	10 days	40°C

The overall migration results obtained were found to be below the overall migration limits defined in EU Regulation 10/2011. Additionally, based on a disclosure from the manufacturer, Smithers have carried out an audit of the formulation of the above resin. All monomers and additives contained in the formulation are approved for use in food contact plastics without restrictions under EU Regulation 10/2011 as amended by EU Regulations 321/2011, 1282/2011, 1183/2012, 202/2014, 174/2015, 1416/2016, 752/2017, 79/2018, 213/2018, 831/2018, 37/2019, 2019/1338, 1245/2020 and 1442/2023.

The product/s contain/s the following substances which are subject to specific migration limits under this legislation and/or classed as dual use additives.

FCM Number	Name	SML or Dual Use	Comment
-	Chromium	SML = None Detectable	All Above Products

Based on a disclosure to Smithers, the formulations of these resin contains a single dual use additive; calcium stearate, FCM106, E 572.

The above product therefore fully meets the requirements of EU Regulation 10/2011, as amended for use with all classes of foodstuff for;

- (a) Storage above 6 months at room temperature and below, and/or
- (b) Hot-fill conditions and/or heating up to $70^{\circ}\text{C} \leq T \leq 100^{\circ}\text{C}$ for maximum $t = 120/2^{(T-70)/10}$ minutes.

Certificate no: 2017/5629D

The product therefore also meets the safety requirements laid out in Article III of EC Regulation 1935(2004) under the above conditions of use.

Users of these resins are reminded that EU Regulation 10/2011 relates to finished articles/materials manufactured from plastics. Users of the above resins are therefore responsible for ensuring that their finished products comply with all applicable migration limits, by conducting appropriate tests on their finished products. Users should pay particular attention to the food types and temperature conditions under which the finished product will be used and conduct appropriate migration tests using conditions selected with the guidance of EU Regulation 10/2011. Furthermore, users should also ensure that their finished products do not bring about an unacceptable change in the taste or odour of food products, as also required by article III of EC Regulation 1935(2004).



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Principal Chemist, Food Contact Testing

Food Contact Plastics

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Certificate no: 2019/5759C

Product Name: 'EE-5001-AAH Monofilament HDPE Grade'

Date of Issue: 14 March 2019

SMP Reference No: 17A12J6493

Reissued: 15 November 2023

Manufacturer/

Supplier:

Ethydco The Egyptian Ethylene and Derivatives Company
36K, Alex-Cairo Desert Road, Elnahda - Amerya, Alexandria Egypt

Samples manufactured from the above resins or closely related resins have been tested for overall migration with the simulants and test conditions listed below. The food simulants and test conditions are those defined in EU Regulation 10/2011.

Food Simulants	Test Conditions	
	Duration	Temp/°C
Simulants A, B and D2	10 days	40°C

The overall migration results obtained were found to be below the overall migration limits defined in EU Regulation 10/2011. Additionally, based on a disclosure from the manufacturer, Smithers have carried out an audit of the formulation of the above resin. All monomers and additives contained in the formulation are approved for use in food contact plastics without restrictions under EU Regulation 10/2011 as amended by EU Regulations 321/2011, 1282/2011, 1183/2012, 202/2014, 174/2015, 1416/2016, 752/2017, 79/2018, 213/2018, 831/2018, 37/2019, 2019/1338, 1245/2020 and 1442/2023.

The product/s contain/s the following substances which are subject to specific migration limits under this legislation and/or classed as dual use additives.

FCM Number	Name	SML or Dual Use	Comment
1	FCM 356	1-hexene	SML = 3 mg/kg EE-5001-AAH only
2	Zinc salt of FCM 106	Zinc Stearate	SML = 5 mg/kg as Zn All Above Products
3	Calcium salt of FCM 106	Calcium Stearate	Dual Use All Above Products
4		Chromium	SML = None Detectable All Above Products

Based on measurements and/or calculations using an EU accepted diffusion model, Smithers have determined that these migration limits will be respected for a typical sample (2 mm thick) using exposure conditions of 10 days at 60°C and the conventional EU ratio of 6 dm² of packaging per kg of food.

Certificate no: 2019/5759C

The above product therefore fully meets the requirements of EU Regulation 10/2011, as amended for use with all classes of foodstuff for;

- (a) Storage above 6 months at room temperature and below, and/or
- (b) Hot-fill conditions and/or heating up to $70^{\circ}\text{C} \leq T \leq 100^{\circ}\text{C}$ for maximum $t = 120/2^{((T-70)/10)}$ minutes.

The product therefore also meets the safety requirements laid out in Article III of EC Regulation 1935(2004) under the above conditions of use.

Users of these resins are reminded that EU Regulation 10/2011 relates to finished articles/materials manufactured from plastics. Users of the above resins are therefore responsible for ensuring that their finished products comply with all applicable migration limits, by conducting appropriate tests on their finished products. Users should pay particular attention to the food types and temperature conditions under which the finished product will be used and conduct appropriate migration tests using conditions selected with the guidance of EU Regulation 10/2011. Furthermore, users should also ensure that their finished products do not bring about an unacceptable change in the taste or odour of food products, as also required by article III of EC Regulation 1935(2004).



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