

**ACCREDITED TESTING
OF FOOD CONTACT
MATERIALS**



Scan the QR code and
download the electronic
version of the brochure!



www.hamilton.com.pl





ACCREDITED TESTING OF FOOD CONTACT MATERIALS:

- Overall migration into all food simulants: water, A, B, C, D1, D2, E, isooctane and 95% ethanol;
- NIAS screening: GC-MS-FID, LC-QToF-MS, HS-GC-MS-FID, ICP-MS with toxicological assessment;
- Specific migration of substances according to EU Regulation No. 10/2011 i.e.: Annex I and Annex II;
- Primary Aromatic Amines (PAAs);
- Solvents residual;
- Sensory analysis acc. DIN 10955, EN 1230; ISO 13302;
- Colour fastness, EN 646, EN 648;
- Heavy metals content: total Cr (VI), Pb, Hg, Cd, and PFAS in accordance with Regulation (EU) 2025/40 (PPWR);
- PAHs (Polycyclic Aromatic Hydrocarbons), phthalates, bisphenols, SCCP/MCCP/LCCP, and other REACH/SVHC-listed substances;
- Migration of certain elements EN 71-3 and EN 71 series standards;
- Restricted substances under RoHS Directive;
- Content and migration of MOSH/POSH/MOAH;
- and many others...

J.S Hamilton Laboratory Services Ltd. offers a wide range of analytical services, support and comprehensive testing plan based on the customer product demands. Our laboratory is equipped with the high technology instruments across different techniques that allow us to obtain low signal/noise threshold. Being the private and independent research analytical laboratory, we are a partner for companies in the food, packaging, plastic, cosmetic, pharmaceutical and chemical industries, as well as for manufacturers and importers of toys and household goods. Our team is a group of experts who have been providing independent compliance assessment of tested products for years.

The main laboratory in Gdynia (Headquarter) and the network of specialised laboratories across Poland have been offering a wide range of accredited physical-chemical, microbiological and sensory analyses since 1949.

J.S. Hamilton is market leader in testing of food, cosmetics, as packaging for food, cosmetics and pharmaceuticals, as well as products and articles intended to be contacted with food (FCM).

J.S Hamilton's experts advise the appropriate and optimized configuration of FCM testing plan in order to ensure compliance with the relevant national, European and USA (FDA) safety regulations and the specific requirements of clients, organizations and retail chains.



ACCREDITATION:

J.S. HAMILTON POLAND Sp. z o.o.
Testing laboratory
PCA accreditation
acc. to PN-EN-ISO/IEC 17025:2005
Accreditation no. AB 079
Accreditation since: 15-10-1996



Food contact materials (FCMs) are widely used in everyday life in the form of food packaging, dishes and utensils, tableware, repeated-use food containers, oven trays, cooking mats etc. When put into contact with food, the different materials may behave differently and transfer their constituents to the food. If transferred in large quantities, many chemicals might endanger human health, or change the food itself. Therefore, food contact materials are the subject to legally binding rules at EU level, currently laid down in the Regulation (EC) 1935/2004 which aims at ensuring FCM safety but also the effective functioning of the internal market in FCMs raw materials and final products. The purpose of this framework legislation for FCMs is to ensure the effective functioning of the internal market for materials and articles intended to come into contact with food and secure a high level of protection of human health, as well as the interests of consumers.

(EC) 1935/2004 gives general requirements that all FCMs must be manufactured in accordance with good manufacturing practice (GMP) so that they are safe and do not change the properties of food in unacceptable ways. As the general requirements for all FCMs set out under the Article 3 are linked to the general obligations of the GMP, separate rules of the GMP are laid down in Commission Regulation (EC) 2023/2006. It also gives other rules, including those on labelling and on compliance documentation and traceability, and lays down the risk assessment process involving EFSA as part of the authorization process for substances.

The Framework Regulation sets up the general safety requirements applicable to all possible food contact materials and articles, and provides a possibility for the adoption of specific safety requirements, national legislation or further harmonization at EU level, for seventeen FCMs listed in Annex I to Regulation (EC)1935/2004. So far, specific safety requirements on EU level have been adopted only for six FCMs (see table). These FCMs need to comply not only with the Framework and the GMP Regulations but also with their specific measures, which can contain detailed restrictions on the manufacture and use of FCM.

The most comprehensive specific EU measure is Regulation (EU) No 10/2011 on plastic materials and articles. It sets out rules on the composition of plastic FCMs, and establishes a Union List of substances that are permitted for use in the manufacture of plastic FCMs. The Regulation also specifies restrictions on the use of these substances and sets out the rules to determine the compliance of plastic materials and articles.

FCM TYPES, ANNEX I OF (EC) 1935/2004:

- Active and intelligent materials and articles
- Adhesives
- Ceramics
- Cork
- Glass
- Ion-exchange resins
- Metals and alloys
- Paper and board
- Plastics
- Printing inks and colorants
- Regenerated cellulose
- Rubbers
- Silicones
- Textiles
- Varnishes and coatings
- Waxes
- Wood





OVERALL & SPECIFIC MIGRATION

Food packaging can be a source of chemical food contaminants. The chemicals transfer from FCMs into food is called migration. The extent to which migration occurs depends on various factors: the physical and chemical properties of the migrant, of the packaging material and the food (e.g. fat content, acidity), temperature, storage, the packaging dimensions in proportion to the foodstuff volume (smaller size packaging has a larger surface to volume ratio).

The types of chemicals that can migrate from packaging into food are highly diverse and depend on the type of packaging material. For inert materials (stainless steel, ceramic, glass) only chemicals from the inside surface directly in contact with the foodstuff can migrate. Chemical diffusion either from the packaging material or from the outside (printing inks, adhesives) is not possible.

Non-inert materials, like paper and cardboards or plastics, can be a direct source of migrants. Chemicals may also migrate from the outside through the packaging. For instance the printed inks compounds applied on the surface of packaging material may migrate through paper into dry foods.

A special case of migration is SET-OFF migration, where the packaging back layer with the print on it can eventually create the actual contact with the other side. In this instance the migrant can transfer through due to the diffusion phenomena to the inside. The set-off migration occurs when printed film foil is stored in rolls, or when paper cups are stacked inside each other. The most comprehensive description and detailed migration testing rules is given by Plastic Regulation EU 10/2011. Safety assessment mechanism of plastic materials is based on use of migration limits. These limits specify the maximum amount allowance for the substances that is accepted to migrate to food.

For the substances on the Union list the Regulation sets out Specific Migration Limits (SML). These are established by EFSA on the basis of toxicity data for each specific substance.

To ensure the overall quality of the plastic, the overall migration into the food of all substances together may not exceed the Overall Migration Limit (OML) of 60mg/kg food or 10 mg/dm² of the contact material.

Although migration testing in the food prevails, migration is usually tested using 'food simulants'. These simulants are representative for a food category, e.g. Acetic acid 3 % is assigned for acidic foods and 50% Ethanol for milk and dairy products. Food simulants are used as substitutes for food due to the simplification of chemical analysis. Chemical detection and quantification requires specific analytical methods for each chemical of interest, specially developed for each food and food simulant type.

FOOD SIMULANTS ACC. (EU) 10/2011

- A Ethanol 10% (hydrophilic food)
- B Acetic acid 3% (hydrophilic food pH<4.5)
- C Ethanol 20% (alcoholic more lipophilic food)
- D1 Ethanol 50% (lipophilic/alcoholic food; oil in water emulsion), milk products
- D2 Vegetable oil; (lipophilic food; surface free fats) or alternative D2 food simulants Ethanol 95%, isooctane
- E poly (2,6-diphenyl-p-phenylene oxide) (dry food), Tenax®, MPPO

The migration testing is done under standardized time temperature conditions, representative for a certain food use, and covers the maximum shelf life of packed food including special thermal conditions treatment.

To ensure the safety, quality and compliance of plastic materials adequate data of the composition of materials (intermediate) has to be communicated upfront via the manufacturing chain but not including the retail stage. For this purpose the 'Declaration of Compliance' (DoC) needs to be provided. The DoC is based on the supporting documentation which documents the reasoning on the safety of a plastic food contact material, and which must be provided to enforcement Authorities on their request. The supporting documentation also provides the important link to the manufacturer's responsibility under GMP (Regulation (EC) No 2023/2006).



NON-INTENTIONALLY ADDED SUBSTANCES

During the food contact materials life cycle unexpected and potentially harmful substances may migrate into the food products. The term NIAS was introduced for plastic FCMs in the legal context (EU) 10/2011. However, NIAS are not only limited to plastics but also occur in other non-plastic FCMs. Article 3(9) of EU 10/2011 defines NIAS as an impurity in the substances used or a reaction intermediate formed during the production process or decomposition or reaction product. Thus NIAS have various sources, it may be side products, breakdown products, and contaminants. Side products are often formed during the production of starting substances and all further manufacturing stages. Polymers, fibers as well as additives (e.g., antioxidants, UV-stabilizers) are often degraded during manufacture and use, thus leading to various different breakdown products. Starting substances often contain impurities or environmental contaminants which may remain in the final FCM. Processing and recycling high likely can also introduce many different contaminants in FCMs. Typical recycling-related NIAS are mineral oil hydrocarbons (MOHs), bisphenols, phthalates, and photoinitiators in recycled paper or flavor compounds, oligomers, and additives in recycled plastics.

According to the legislation, NIAS have to be assessed using scientifically recognized principles of risk assessment. Non-Intentionally Added Substances have to comply with the General Safety Requirements of Article 3 of Regulation (EC)1935/2004 and are subject to a risk assessment by the business operator in accordance with Article 19 of Regulation EU 10/2011.

With the GC-MS/FID technique we are able to determine more volatile substances. Most likely hydrocarbons that due to their chemical structure are usually the thermal degradation products. This technique allows to identify fatty acid esters, breakdown products of antioxidants and demposition products breakdown products of antioxidants and decomposition products of antioxidants and UV stabilisers.

With the HS-GC-MS-FID technique we are able to detect typically volatile compounds i.e. solvents residual.

With LC-QToF-MS analysis, we can identify complex polymer structures, including high-molecular-weight compounds, plastic oligomers, and advanced degradation products.



REPEATED-USE ARTICLES AND FOOD CONTACT MATERIALS

- Mechanical dishwashing resistance of utensils EN 12875-1, -2
 - Triple overall and specific migration testing according to Annex I and II into all food simulant solutions
 - Sensory analysis according
 - Other FCM analysis
-

CONSULTANCY SERVICES

- Set-up of optimized testing plans for compliance verification of FCMs
 - Documents review, DoCs for raw materials verification
 - Compliance assessment based on EU 10/2011, Swiss Ordinance, BfR Recommendations
 - Toxicological risk assessment e.g. by TTC-concept method
 - Drafts of DoC (Declaration of Conformity) for final FCMs
-

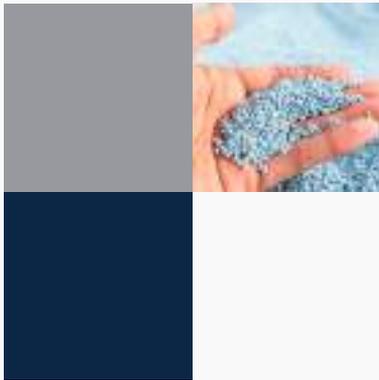
PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND COSMETICS

- Overall and specific migration into all food simulants: water, A, B, C, D1, D2, E and D2 alternatives (isooctane and 95% Ethanol)
 - Specific migration of:
 - Annex II: Primary Aromatic Amines (PAAs) and Metals taking into account the last amendment EU 2020/1245
 - Plasticizers, antioxidants, monomers and other additives acc. EU 10/2011 Annex I and Swiss Ordinance
 - Bisphenols and epoxy resin derivatives BADGE, BFDGE and NOGE in coated materials, plastics and adhesives
 - Mineral oils (MOSH/POSH & MOAH)
 - Oligomers
 - NIAS screenings: GC-MS-FID, LC-QToF-MS, HS-GC-MS-FID, ICP-MS
 - Isocyanates content and migration (laminates with adhesives, printed materials)
 - Set-off storage effect of printing inks and specific migration UV-initiators, acrylates, BHT, PAAs, etc.
 - Solvents residual
 - Sensory analysis acc. DIN 10955, EN 1230-1/ -2, ISO 13302
 - Color fastness acc. EN 646
 - Gas Transitions Rates i.e.: oxygen (OTR), Water-Vapour-Transition-Rate (WVTR), CO₂
-



J.S. HAMILTON OFFER FOR FCM ARTICLES AND PACKAGING MANUFACTURERS





J.S. HAMILTON OFFER FOR PCR ARTICLES



WHAT IS PCR?

PCR materials are recycled plastics that have recovered and processed through a recycling process, i.e. reprocessing. To the possible degree, they come from consumers, from used plastic packaging that the consumer throws in the bin. The waste stream includes: food packaging, packaging from cosmetics, household chemicals and medicine packaging. As such they are a mix of plastics such as LDPE, HDPE, PP, PS, PET, laminates and other plastics.

WHY PCR PLASTICS?

Today, the European Union is putting great focus on increasing the use of recycled plastics, including PCR plastics for packaging. The reason for this approach is to reduce the amount of waste going to landfill and to reduce the environmental impact of waste. According to the Single Use Plastic Directive 2019 from 2025 PET beverage bottles are to contain at least 25% recycled plastic. From 2030, PET beverage bottles are to contain at least 30% recycled plastics. At the same time, the market of food and cosmetics packaging is striving to produce packaging with the highest possible proportion of PCR. This is a trend that has continued for several years. There are already packaging made from 100% PCR available on the market.

SAFETY OF PCR MATERIALS

According to Regulation (EC) 1935/2004, every material in contact with food must, under foreseeable conditions of use, be safe for the final recipient i.e. the consumer. Regulation (EU) 1934/2004 defines this safety as:

- no release of chemical substances beyond safe limits;
- the absence of change in the composition of the food;
- no change in the organoleptic characteristics of the food.

Recycled plastics intended to come into contact with food shall also comply with the requirements of Commission Regulation (EU) No 2022/1616. The same requirements can also be applied to packaging intended for cosmetics. According to the regulation, recycled PET products can be recycled, recycling of other plastics is currently prohibited. The recycler must obtain a permit for the recycling process to be carried out. He must also ensure continuous monitoring of the entire production process and the composition of the final product. For this reason, the use of PCR plastics is associated with additional risks. The most important is include the possibility of contamination of the main material with components of other materials. The final product may substances that are not approved for direct food contact such as printing inks, adhesives, varnishes and coatings. PCR plastics

may contain substances commonly regarded as harmful or banned such as: bisphenols, phthalates, heavy metals, SVHC substances and others.

Please note that production batches may vary significantly from each other. For this reason, the Regulation insists that each batch of raw material and final product must be tested.

J.S. Hamilton offers a wide range of analysis to assess the safety of the manufactured PCR materials.

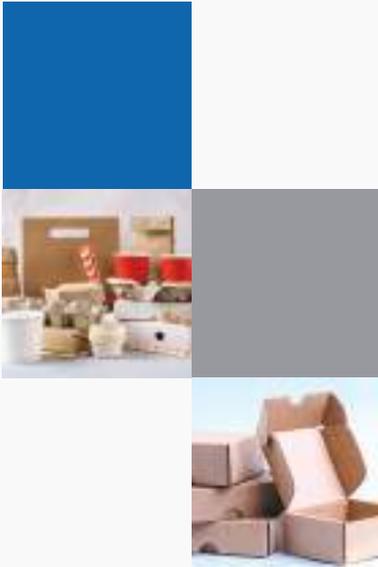
CONSULTANCY SERVICES

- Technical advice on PCR materials
- Setting up of optimised test plans for PCR compliance verification
- Review of documents, declarations of conformity for verification of raw materials
- Compliance assessment based on EU 10/2011
- Toxicological risk assessment including concept method TTC

PCR PLASTIC MATERIALS AND PRODUCTS

- Testing of granulates and finished packaging
- Overall and specific migration for compliance with Regulation 10/2011
- Specific migration of elements listed in Annex II of Regulation (EU) No 10/2011 and primary aromatic amines in accordance with 1245/2020 amendment:
- Content and migration of non-intentionally added substances (NIAS) by GC-MS/FID and LC-QTOF-MS, HS-GC-MS-FID
- Content of:
 - metals
 - substances from the SVHC list
 - alkylphenols
 - bisphenols
 - phthalates
 - fluorinated alkyl compounds (PFAS)
 - chlorinated paraffin chains (LCCP, MCCP, SCCP)
 - polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) polybrominated diphenyl ethers (PBDE)
- organotin compounds





J.S. HAMILTON OFFER FOR PAPER AND CARDBOARD ARTICLES

Paper and cardboard products are the next most important type of packaging. Similar to plastics they can be printed, laminated and coated with other materials. They are an alternative to plastic packaging. The main source of paper is recycled cellulose and wood pulp. In addition, paper contains a high proportion of modifying additives. In the opposite to plastics, no specific legislative measures have been drafted at EU level. For this reason, product manufacturers use official recommendations to ensure safety. Both recycled and virgin fibre materials are used. Information on raw material composition and application defines the choice of tests for this group of materials.

J. S. Hamilton Laboratory Services Ltd provides compliance with all the requirements contained in these recommendations.

- BFR XXXVI Paper and board for food contact
- CEPI guideline for the compatibility of materials and articles paper and board for food contact - EU
- EDQM Paper and board for food contact materials and articles intended to come into contact with food - EU



MATERIALS SUITABLE FOR TESTING:

Printed and unprinted materials and those from virgin fibres (100% cellulose) and mixed with recycled materials are tested:

- Paper
 - Paper board
 - Cardboard
 - Coated materials
 - Tissue paper
 - Napkins, tissues, paper towels
 - Waste paper
 - Biocomposite materials
-

PAPER AND CARDBOARD AS FCM

- Determination of the grammage, moisture content
 - Dry matter in the Water Extract
 - Heavy metals acc. Directives 94/62/EC and Regulation (EU) 2025/40, Metals in water extract
 - Formaldehyde, Pentachlorophenol (PCB), Glyoxal, Anthraquinone
 - Primary Aromatic Amines (PAAs)
 - Polychlorinated Biphenyls (PCB)
 - Bisphenol A, Bisphenol S and other bisphenols
 - Aromatic Ketones
 - Phthalates
 - Polycyclic Aromatic Hydrocarbons (PAHs)
 - Mineral Oils (MOSH and MOAH) content and specific migration
 - PFAS (perfluoroalkylated substances)
 - NIAS screening: GC-MS-FID, LC-QToF-MS, HS-GC-MS, FID ICP-MS
 - Transfer of Antimicrobial Constituents
 - Determination of the Fastness of Whitened Paper and Board, EN 648
 - Color fastness, EN 646
 - Specific migration of printing inks compounds, like photo(UV)initiators, acrylates
 - Extraction Tests According to the FDA Regulations, FDA Sec. 176.170
 - Testing under Toys Directive (EN 71 standards) and RoHS
-





REACH AND OTHER REGULATIONS IN CONSUMER GOODS, TOYS, RECYCLED MATERIALS

- Heavy metals
 - PAHs (polycyclic aromatic hydrocarbons), e.g. benzo[a]pyrene
 - Phthalates
 - PAAs and AZO dyes
 - SCCP, MCCP, LCCP (Short / Medium / Long-Chain Chlorinated Paraffins)
 - BPA (Bisphenol A), BPS (Bisphenol S) and other bisphenols
 - Testing acc. to Toy Safety Standard EN 71 series
 - Testing of substances acc. RoHS Directive
 - Testing according to special requirements and specifications of you clients, e.g. retailers (RSLs, Toxic & Restricted Substances Lists)
-

METALS AND ALLOY

Specific release of metal ions testing based on „Metals and alloys used in food contact materials and articles, A practical guide for manufacturers and regulators” and Resolution CM/Res(2020)9 on metals and alloys used in food contact materials and articles, adopted by Council of Europe member states.

GLASS AND CERAMICS

- Ceramics: Determination of lead (Pb) and cadmium (Cd) transferred (released) from ceramic articles which, in their finished state, are intended to come into contact with foodstuff, acc. Commission Directive 2005/31/EC of 29 April 2005 amending Council Directive 84/500/EEC.
 - Glass: determination of the release of lead and cadmium from silicate surfaces other than ceramic ware.
-



TESTING OF MATERIALS ACC. EUROPEAN PHARMACOPEIA (Ph. Eur.)

Testing of Polyolefins, PVC, PET, Rubber under GMP standard, e.g.:

- Appearance of solution, Absorbance
- Acidity / alkalinity
- Reducing Substances
- Extractable Al, Ti, Zn; Extractable heavy metals
- Sulfated ash; Plastic additives, Phenolic and non-phenolic antioxidants, Amides and stearates
- Penetrability

Testing is conducted according to method described in current edition of Ph.Eur. Monographs:

- (3.1.3) Polyolefins
 - (3.1.4) Polyethylene without additives for containers for parenteral preparations and for ophthalmic preparation
 - (3.1.5) Polyethylene with Additives for Containers for Parenteral Preparations and for Ophthalmic Preparations
 - (3.1.6) Polypropylene for Containers and Closures for Parenteral Preparations and Ophthalmic Preparations
 - (3.1.11) Material Based on NonPlasticised Poly (vinyl chloride) for Containers for Dry Dosage Forms for Oral Administration
 - (3.1.15) Polyethylene Terephthalate for Containers for Preparations not for Parenteral Use
 - (3.2.9) Rubber Closures for Containers for Aqueous Parenteral Preparations, for Powders and for Freeze-Dried Powders
-





CERTIFICATION

Food SAFE – Certified Packaging & FCMs

Food contact materials (FCMs) are widely used in everyday life in the form of food packaging, dishes and utensils, tableware, food containers, etc. When put into contact with food, the different materials may behave differently and transfer their constituents to the food. If transferred in large quantities, many chemicals might endanger human health, or change the food itself.

In order to meet the increasing demands and governed expectations from the market (Consumers' preferences), J.S. Hamilton Poland has developed guidelines based on applicable law, including Regulation (EC) No 1935/2004, Regulation (EC) No 2023/2006, Directives 94/62/EC and Regulation (EU) 2025/40, Commission Regulation (EU) No 10/2011, Annex 10 of the FDHA Regulation on Materials and Articles intended to come into Contact with Food (SR 817.023.21) (Swiss Ordinance), BfR Recommendations on Food Contact Materials, Code of Federal Regulations 21, Food and Drugs, and other prescriptive requirements, supplemented by additional or modified requirements, as well as guidelines of various organizations depending on the respective use and type of material/article under review.

Producers, importers and exporters who want to stand out on the market can apply for the "Food SAFE, Certified Packaging & Food Contact Articles" certificate and obtain their individual quality mark.

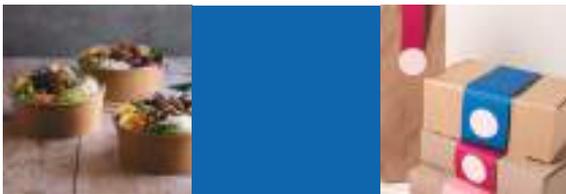
Useful for Recycling

Environmental friendly materials and packaging have become very popular in recent years. It results directly from the emerging ecological trends, growing public awareness and market requirements. Such packaging can be an environmentally friendly alternative to standard products. The growing market demand for this type of products means, that many manufacturers focus on creating and improving materials with properties suitable for recycling.

To meet the changing market trends, the company J.S. Hamilton has developed guidelines using existing legal and normative acts, supplemented with additional or modified requirements, as well as guidelines of various organizations supporting the recycling of packaging waste.

Entrepreneurs who are producers, importers or exporters, wishing to distinguish their product, may apply for a certificate confirming the property "Useful for recycling" and obtain their individual mark of conformity.





PFAS free

PFAS (per- and polyfluoroalkyl substances) is a large family of chemical compounds – comprising over 10,000 substances – which have been used for years in various industries, including food packaging. Their popularity derives from their unique properties hydrophobicity (water resistance), oleophobicity (grease resistance), high thermal and chemical stability.

It is these properties that have led to PFAS being used in barrier paper coatings, fast food packaging, microwave packaging and baking paper.

Why are PFAS called 'forever chemicals'?

- They hardly decompose – their carbon-fluorine bonds are among the strongest in organic chemistry.
- They accumulate in the environment – PFAS are detected in water, soil, animal and human organisms.
- They circulate continuously in nature – they enter the food chain and are difficult to remove.
- They are associated with serious health risks, including cancer, hormonal disorders, and effects on fertility and immunity.

The WHO, ECHA, EFSA and many other international organisations classify PFAS as substances of very high concern.

PFAS are gradually being eliminated from the market. Work is underway in the EU to ban them altogether, and many countries are already introducing local restrictions on their use, e.g. Denmark, the Netherlands and Germany. PPWR and ECHA also recognise the need to eliminate fluorinated substances. Retail chains and consumers are increasingly demanding PFAS-free labelling.

In response to these needs, the J.S. Hamilton laboratory has developed practical testing guidelines based on current legislation. These guidelines make it possible to confirm the compliance of products with current requirements and to verify the absence of PFAS in your products.

Manufacturers, importers and exporters who want to distinguish their products on the market can apply for a 'PFAS FREE' certificate confirming the absence of perfluorinated compounds. In addition, they receive an individual compliance mark, which is an added value in communication with customers and business partners.

Biodegradable and compostable

In recent years, environmentally friendly materials and packaging have surged in popularity. This trend stems from increasing ecological awareness, public consciousness, and evolving market demands. Such products offer a sustainable alternative to conventional options. The rising demand encourages manufacturers to innovate and enhance the properties of biodegradable and compostable materials.

To meet the changing market trends, the Laboratory J.S. Hamilton has developed guidelines using existing legal and normative acts (harmonized with Directives 94/62/EC and Regulation (EU) 2025/40, EC standards EN 13432, EN 14995 – assessing the composting capacity of plastics, as well as EN ISO 20200 and EN 14045 – determination of the degree of sample decomposition under simulated composting conditions on a laboratory scale), supplemented with additional or modified requirements.

Producers, importers, or exporters looking to set their products apart can apply for a certificate that confirms the "Biodegradable and Compostable" property in the "Industrial" or "Home" category and receive their individual mark of conformity.





LET'S CONTACT US

J.S. Hamilton Poland Sp. z o.o.
Chwaszczyńska 180
81-571 Gdynia, Poland

tel. +48 58 766 99 00
e-mail: pack@jsh.com.pl
www.hamilton.com.pl

J.S. Hamilton laboratory is ...

- Market leader in testing of packaging for food, cosmetics and pharmaceuticals
- An independent research center offering knowledge and experience as well as a wide range of analytical methods
- A reliable partner of food, packaging and plastics processing industry
- Expert team ensuring impartial assessment of the quality, compliance and safety of products

We support the development of our partners and confirm their credibility, responsibility & innovation.

Martyna Czerwińska
Sales Director
M: +48 725 110 148
mczerwinska@jsh.com.pl

Europe
Monika Witek
M: +48 885 332 005
mwitek@jsh.com.pl

Europe
Natalia Iciek
M: +48 885 393 097
niciek@jsh.com.pl

DACH Region
Beata Parniewicz
M: +48 785 880 915
bparniewicz@jsh.com.pl

Central Poland/Europe
Kornela Cecotka
M: +48 695 239 177
kcecotka@jsh.com.pl

South Poland/Europe
Katarzyna Krzakiewicz
M: +48 601 772 943
kkrzakiewicz@jsh.com.pl

Northern Poland/Europe
Szymon Frackowiak
M: +48 785 331 316
sfrackowiak@jsh.com.pl