

BLOK NAUKOWY PRZYGOTOWANY WE WSPÓŁPRACY Z SIECIĄ BADAWCZĄ ŁUKASIEWICZ – COBRO – INSTYTUTEM BADAWCZYM OPAKOWAŃ



RESEARCH AND CERTIFICATION

Grzegorz GANCZEWSKI (Łukasiewicz Research Network – COBRO – Packaging Research Institute, Poland), Anouk DANTUMA (KCPK, The Netherlands), Katherine FLYNN (The SAFE Consortium, Belgium), Diana GREGOR-SVETEC (University of Ljubljana, Slovenia), Johanna LAHTI (Tampere University of Technology, Finland), Veronika ŠTAMPFL (University of Ljubljana, Slovenia), Sanne TIEKSTRA (Bumaga, The Netherlands)

SUSTAINABILITY ASPECTS OF ACTIVE AND INTELLIGENT PACKAGING

Traditional definition of sustainable development was developed by the Brundtland Commission in 1987. It states that sustainable development is a development that meets the needs of the present without compromising the ability of future generations to meet their own needs. Sustainable development comprises three elements - economic, social and environmental – which have to be considered in equal measure in a whole life cycle of given product, service or economic process. Active and Intelligent packaging solutions tackle sustainability in a variety of interesting ways, depending on where the interaction takes place in full packaging value chain. This article explains various sustainability aspects and benefits and challenges related to active and intelligent packaging.



The thematic scope of articles published in Packaging Spectrum includes the following sections: Materials and Packaging, Research and Certification, Technologies, Machines and Equipment, Logistics, Management and Marketing, Sozology and Law, Economics and the Market. We cordially invite you to cooperation and publication. Please contact editorial assistant Joanna Kuzincow, redakcja@cobro.org.pl







RETAIL PACKAGING TESTING

Physical and mechanical tests

Contact: M. Sc., Eng. Jacek Frydrych, Tel.: +4822 8422011 int.32, e-mail: frydrychj@cobro.org.pl;

Chemical and sensory tests

Contact: M. Sc., Eng. Katarzyna Samsonowska, Tel.: +4822 8422011 int.27, e-mail: lab_opak_jedn@cobro.org.pl; PhD, Eng. Monika Kaczmarczyk, tel.: +4822 8422011 int. 42, e-mail: kaczmarczyk@cobro.org.pl

• Examination of packaging provided with closures making it difficult for children to open

Contact: M. Sc., Eng. Małgorzata Pawlicka, tel.: +4822 8422011 int. 55, e-mail: lab_opak_jedn@cobro.org.pl, PhD, Eng. Monika Kaczmarczyk, tel.: +4822 8422011 int. 42, e-mail: kaczmarczyk@cobro.org.pl

TRANSPORT PACKAGING TESTING

- UN certification testing
- B certification testing
- Expertise testing

Contact: M.Sc. Eng. Andrzej Milewski, tel.: +4822 8422011 int.30, e-mail: milewski@cobro.org.pl

CERTIFICATION

CERTIFICATION FOR AC 016 ACCREDITATION

- Certification for UN
- Re-processing
- Certification of packaging protected against opening by a child

Contact: M.Sc. Eng. Andrzej Milewski, tel.: +4822 8422011 int.30, e-mail: milewski@cobro.org.pl

CERTIFICATION OUTSIDE THE SCOPE OF ACCREDITATION

- Certification for B
- Certification of compliance with the requirements of standards
- · Certification of products suitable for composting

Contact: Packaging and Environment Department, tel. 22 842 20 11 int.39, e-mail: eko@cobro.org.pl

Certification of the content of renewable raw materials

Contact: MA Grzegorz Ganczewski, tel. (22) 842 20 11 int. 58 fax (22) 842 23 03, e-mail: ganczewski@cobro.org.pl

ECOLOGY

- Assessment of conformity with the requirements of the packaging
- LCA (Life Cycle Assessment)
- Calculation of greenhouse gas emissions (carbon footprint)
- Initial assessment of compostability
- Certification of the content of renewable raw materials
- Color measurement test
- COBRO recommendation: recovery organizations

Contact: Packaging and Environment Department, tel. 22 842 20 11 int.39, e-mail: eko@cobro.org.pl

THE ŁUKASIEWICZ RESEARCH NETWORK EUROPE'S THIRD LARGEST RESEARCH NETWORK



A BRIDGE BETWEEN THE RESEARCH AND THE ECONOMY



A TRANSFER OF KNOWLEDGE INTO THE ECONOMY



RESEARCH OF AREAS OF STRATEGIC IMPORTANCE FOR THE COUTRY'S DEVELOPMENT



STRENGTHENING THE INTERATIONAL POSITION OF POLISH RESEACH



RESEARCH AND ANALYTICAL RESOURCES FOR THE POLSIH GOVERNMENT