

Packaging spectrum

BŁOK NAUKOWY PRZYGOTOWANY WE WSPÓŁPRACY
Z COBRO – INSTYTUTEM BADAWCZYM OPAKOWAŃ



RESEARCH AND CERTIFICATION

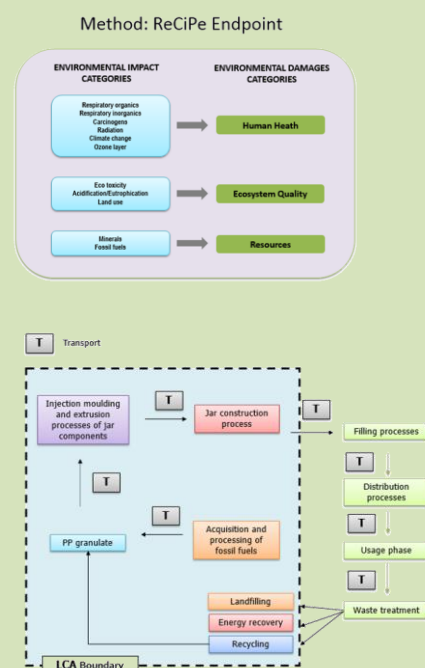
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COMPARATIVE LIFE CYCLE ASSESSMENT (LCA) OF SELECTED COSMETIC PACKAGING – UNCERTAINLY ANALYSIS USING THE MONTE CARLO COMPUTATIONAL ALGORITHM

Widespread use of packaging, mostly produced from non-renewable resources, causes a noticeable increase in environmental burdens – the consumption of natural resources, emissions during production, as well as the need for management of increased waste.

Increasing public awareness, more stringent legal regulations and the development of knowledge about the environmental impact of products, makes the protection of the natural environment and sustainable development more and more important. More attention is paid to the type of raw materials and their impact on the environment, energy consumption, mode of transport, storage and disposal of post-consumer waste.

The activities of environmental organizations, increased awareness of residents, increasing legal requirements, and above all, the development of knowledge about the impact of many products on the state of the environment led to the development of various methods to assess this impact in the context of environmental threats. The Life Cycle Assessment (LCA) is an example of a method effectively implemented in industrial practice, aimed at limiting the negative impact on the environment. It complies with the international standard ISO 14040 Environmental management – Life cycle assessment – Principles and structure.



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**

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- **Chemical and sensory tests**

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

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TRANSPORT PACKAGING TESTING

- **UN certification testing**

- **B certification testing**

- **Expertise testing**

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CERTIFICATION

CERTIFICATION FOR AC 016 ACCREDITATION

- **Certification for UN**

- **Re-processing**

- **Certification of packaging protected against opening by a child**

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CERTIFICATION OUTSIDE THE SCOPE OF ACCREDITATION

- **Certification for B**

- **Certification of compliance with the requirements of standards**

- **Certification of products suitable for composting**

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- **Certification of the content of renewable raw materials**

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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**

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