

1 Objective

Philips Lighting Sustainable Design process pursues a reduction of the environmental impact of its products and packaging by using responsible materials from renewable sources. This approach is governed by the overall Philips Lighting Sustainability- and Environmental policy

This policy requirement encourages packaging-designers, purchasing community and suppliers to minimize the environmental impact of packaging materials in all phases of its life cycle by adhering to the following principles for a sustainable packaging-design and -production including specific requirements and targets:

1. Maximize recyclability and the content of recycled materials to close the materials loop,
2. Minimize the amount of resources considering material weight, volume and formfactor for container loading, while offering sufficient product protection
3. Use of alternative materials like certified renewable resources or bio-based materials is promoted, in case recycled content is not or limited available by the local supply base/in the region,
4. All mandatory local and global regulations and policy requirements for packaging related to chemicals substances, materials and gassing e.g. the [Philips Lighting Regulated Substances List](#) (RSL),
5. To assure a responsible sourcing Philips Lighting requires its suppliers to conduct a risk assessment to ensure compliance with this policy requirement
6. Wood is not harvested in violation of traditional and civil rights, in forests where high conservation values are threatened nor harvested in forests being converted to plantations or non-forest use.
7. Wood used for products and packaging must be originating from sustainable sources (FSC, PEFC, or comparable) or based on alternative materials like bamboo, rattan and leftovers from sugar production (UNESCO) or pressed wood from wood shavings from timber production

2 Scope and responsibilities

The scope of this policy requirement is applicable for the packaging components ending up in Philips Lighting finished products and includes:

1. Packaging for all newly introduced products and changes in packaging of current portfolio from 2014
2. Transport packaging (e.g. A-boxes and palette boxes),
3. Individual product packaging (e.g. boxes, blisters, and sleeves),
4. Supportive packaging materials (e.g. pallets, stretch foil, stowing materials)
5. Descriptions- or Instructions for use (DfU/IfU), incl. quick start guidelines) and warranty cards.

The scope of this policy does not describe the following:

1. Products and/or promotional materials supporting the product in the shops, and (re-usable) industrial packaging of parts delivered to Philips Lighting production sites and does not end up at the final customer.
2. Other marking requirements (e.g. Mobius triangle, Grüner Punkt logo) as these are included in packaging brand identity- and packaging guidelines.

We request suppliers to regularly check the Philips Lighting Sustainability website downloads to remain informed on the latest changes in legislative and policy obligations.

<http://www.lighting.philips.com/main/company/about/sustainability/downloads>

This table provides the structure of responsibilities regarding this policy:

Scope	Function (Dept./Team)	Responsibility	Description
Environmental Authorization Committee (EAC)	Lighting Sustainability	Ownership	Create, publish and review the policy
BU I2M PCC – Packaging Design Centers	Product Design, PCC Packaging Designers & Procurement	Implementation	Execute the policy and meet the targets
Lighting	Lighting Sustainability	Exchange of Information and Support PCC & Bu's	Deploy the policy, provide advice as well as support to the development and procurement functions with the implementation of the policy
Lighting	Procurement	Supplier responsibility	At the request of Philips Lighting suppliers shall provide written evidence, such as certificates or declarations of conformity to demonstrate compliance to the risk assessment for responsible sourcing and requirements and targets included in this policy
Suppliers	Suppliers	Supplier responsibility	Quarterly report an overview of all grades supplied to Philips Lighting (weight, recycled content, certification, etc.) in packaging reporting template

3 Terms and abbreviations

DFU / IFU	Directions or Instructions for Use	PET	Polyethylene terephthalate
EAC	Environmental Authorisation Committee for waiver applications and approval (Sustainability dept)	PS	Poly Styrene
FSC	Forest Stewardship Council / Fair Wood	PVC	Polyvinyl Chloride
PE	Polyethylene	PCC	Packaging Competence Center
PEFC	Programme for the Endorsement of Forest Certification	RSL	Regulated Substance List
		SFI	Sustainable Forestry Initiative

4 Design criteria and implementation

Philips Lighting aims to achieve the highest feasible recycled content percentage in every region without compromising technical performance and protection standards. More specifically, Philips Lighting sets the following criteria for recycled content of certain packaging materials as specified in Annex 1 & 2.

All Philips Lighting BGs/Bu's are obliged to define implementation plans and road maps for alternative materials, based on a proper inventory and impact assessment. Suppliers have to meet the targets set in this policy requirement.

In exceptional cases, exemptions for individual products can be obtained in mutual agreement with the supplier, according the Lighting EAC waiver procedure; e.g. in case of safety, regulatory, technical performance or business critical reasons. This might be applicable for instance for packaging of large- or fragile products.

5 Document version history

Date	Author	Version	Reasoning
08-02-2013	J.W. Scheijgrond	1	Introduction of this policy
27-09-2013	T.B.L.W. Marinelli	2	Update of the Philips Packaging Material Policy
22-10-2016	L.U.E. Konings	3	Philips Lighting version with adapted targets from January 2018 onwards

ANNEX 1: Design criteria for paper, paper-pulp and (corrugated) cardboard packaging

Paper based materials are preferred above plastic based packaging due to a lower environmental footprint, except in case customers require the use of plastic materials.

Philips Lighting sets the following criteria for recycled content of certain packaging materials as specified below.

Table 1: Criteria for recycled paper, paper-pulp and (corrugated) cardboard in packaging

	Transport packaging Individual product packaging (incl. DfUs, warranty card, etc)
	From Jan 1, 2018 onwards
Production in Mature geographies	>80%
Production in Growth geographies	>80%



Remarks:

1. Mature geographies are comprising Europe, Americas (North & South)
Growth geographies are comprising like Russia & Central Asia, Middle East & Turkey, Africa etc.
2. Where the required recycled content is not feasible, recycled materials are not or limited available:
 - a. Materials from certified renewable sources (e.g. FSC, SFI, PEFC) shall be used, in case a product packaging cannot meet the required recycled content target. In this case, a waiver is not required.
* FSC = Forest Stewardship Council, <http://www.fsc.org/>
* PEFC = Programme for Endorsement of Forest Certification Schemes <http://www.pefc.org/>
 - b. Bio-based materials (e.g. bamboo, sugarcane) may be used as alternative for certified renewable sources, provided these sources do not compete with the food chain. No targets are set as the market for bio-based materials differs widely per country.
3. Labeling packaging with FSC/SFI/PEFC logo is optional but is encouraged, if space is available, cost is acceptable, and it contributes to communicating our sustainability credentials towards our customers.
4. When specific targets are included in the policy (e.g. for recycled content) they apply as an average percentage for the total of all packaging materials supplied per supplier.

Organization: Philips Document type: Policy requirement Reference: QS-ExC4-012

Function: Sustainability Document owner: Sustainability Professional Process reference: 16.6.2

Requirements for products Last modified: 2017-10-31 Version: 3 Page: 4 of 5

ANNEX 2: Design criteria for plastic packaging

Philips Lighting sets the following criteria for recycled plastics content of certain packaging materials. Alternatively, we encourage the use of bio-based plastics wherever technically and economically feasible.

Table 2: Criteria for recycled plastic packaging content in all products:

	Recycled content PET
	From Jan 1, 2018 onwards
Production in Mature geographies	>25%
Production in Growth geographies	>10%

Remarks:

1. Mature geographies are comprising Europe, Americas (North & South)
Growth geographies are comprising other areas like Russia & Central Asia, Middle East & Turkey, Africa etc.
2. PVC and EPS in packaging for products are restricted in accordance with RSL.
3. Where no recycled plastics are available, it is encouraged to consider sourcing of bio-based materials (e.g. bio-based plastics), provided these sources do not compete with food. No targets are set as the market for bio-based materials differs widely per country.
4. Recycled content targets for other plastics, such as PE and PS, may be set in the future.
When specific targets are included in the policy (e.g. for recycled content) they apply as an average percentage for the total of all packaging materials supplied per supplier.