

**SIEMENS**

# Gigaset E490/E495

Environmental Product Declaration  
according to ISO 14021



CORDLESS HOME COMMUNICATION

**Gigaset**

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# 1 Our environmental mission

We at Gigaset Communications GmbH\* have a responsibility to society. Our convictions make us dedicated to help create a better world. We demonstrate this through our ideas, technologies and actions that serve people, society and the environment. Moreover, the goal of our worldwide activities is to safeguard the foundations of human

life. We acknowledge our responsibility for our products over their entire lifecycle. The impact of our products on the environment is assessed in product and process planning, during which we take production, procurement, sales, usage, service and disposal into account.

# 3 Environmental management system

Gigaset Communications GmbH is certified according to the quality standards EN ISO 14001 and ISO 9001.

ISO 14001 (Environment), certified since September 2007 by TÜV SÜD Management Service GmbH

ISO 9001 (Quality), certified since February 17, 1994 by TÜV SÜD Management Service GmbH

\* Gigaset Communications GmbH is a licensee of the Siemens trademark.

## 4 Product description

### Gigaset E490/E495

The Gigaset E490 and the Gigaset E495 are the tough telephones from Gigaset. Resistant to water splashes, shocks and dust, they can survive in any environment; from the most hectic of homes to the dustiest of workshops. Easy to handle, these phones have an illuminated colour display and keypad for faster navigation. Thanks to a vibra-call setting, they even vibrate to let you know a call is coming. When you need to do two things at once, you can experience advanced hands-free with great sound quality or use the helpful headset connection via 2.5mm jack. With talk-time of 12 hours and an extra long standby time of 250 hours, the Gigaset E490 and E495 are simply dependable. And for even more Gigaset convenience they are expandable up to 6 handsets.

The Gigaset E495 comes complete with a built in answering machine with up to 45 minutes re-cording time and remote message playback. And with ECO DECT technology on both the Gigaset E490 and E495 you can make energy savings and help the environment.

With ultra practical features and a durable outer shell, the Gigaset E490 and E495 are steadfast phones that withstand the vigours of even the most demanding days.

### Product details

<b>Device</b>	Gigaset E490/E495
<b>Usage</b>	Analog connection / private branch exchanges
<b>Standards</b>	DECT, GAP

- Cordless analogue phone, with/without answering machine
- High resistance to shocks, dust and water splashes
- Advanced hands-free talking with brilliant sound quality
- Vibracall
- Headset connection via 2.5mm jack connection
- Illuminated, ergonomic keypad
- Illuminated colour display
- Text messaging with SMS<sup>1</sup> up to 612 characters
- Radiation-free<sup>2</sup> ECO Mode Plus for up to 100% reduction of transmitting power
- Caller identification via CLIP<sup>1</sup>
- Gigaset E495: integrated answering machine with up to 45 minutes recording time



1] Dependent on country/network/operator

2] When handset is idle or charging and when registered handsets support ECO Mode Plus

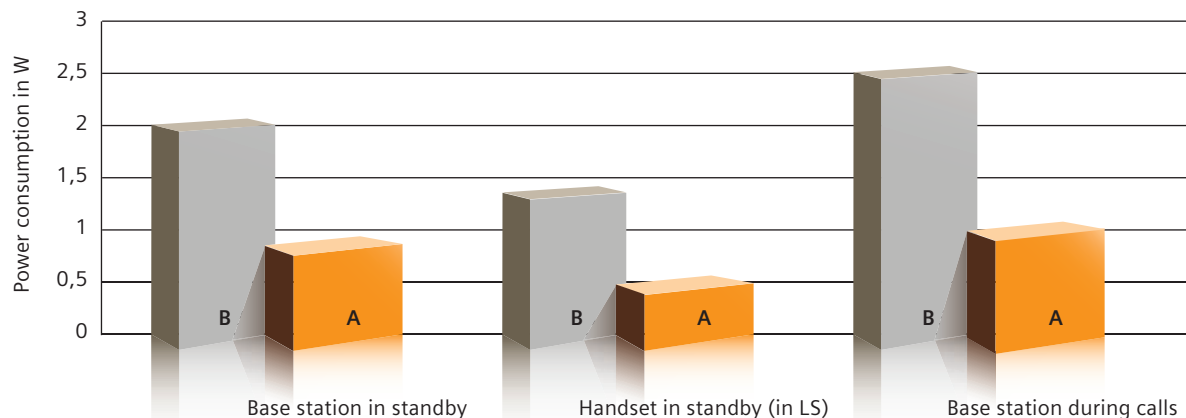


## 5 Ecological power use – ECO DECT in the Gigaset E490/E495

ECO DECT saves energy and makes an active contribution to environmental protection. ECO DECT addresses the following points:

### Switched-mode versus conventional power supply

1. The use of switched-mode power supplies (A) in the base station cuts consumption by up to 60% compared to conventional power supply units (B).



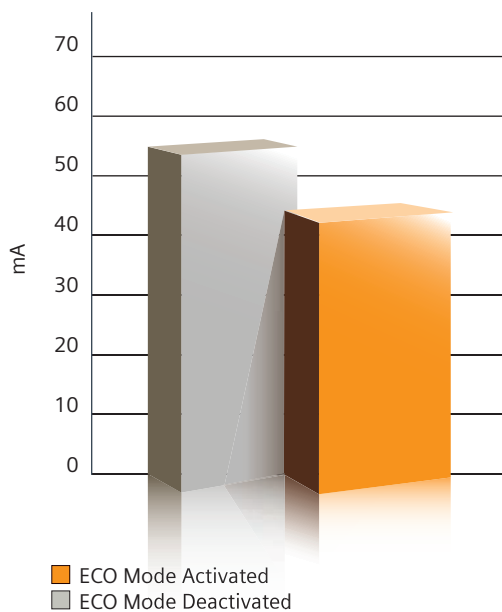
Phone use averaging one hour per day results in a yearly saving of approximately 24 kWh.

\* Provided handset is in standby mode and all registered handsets support ECO Mode Plus.

2. The ECO DECT function complements this adjustment: the transmission power of the handset and base station in idle mode are automatically reduced to zero if the handset is in the base station and only one handset has been registered.
3. If customers select "ECO Mode", they can also manually reduce the transmission power of the base station and handset by 80%. In radiation-free "ECO Mode Plus" the transmission power can be reduced by up to 100% when the handset is idle or charging and when all handsets support ECO Mode Plus.

Also, the handset's power consumption can be cut by 18%, thereby increasing talk time by 22%. However, this reduces the range to about half the distance.

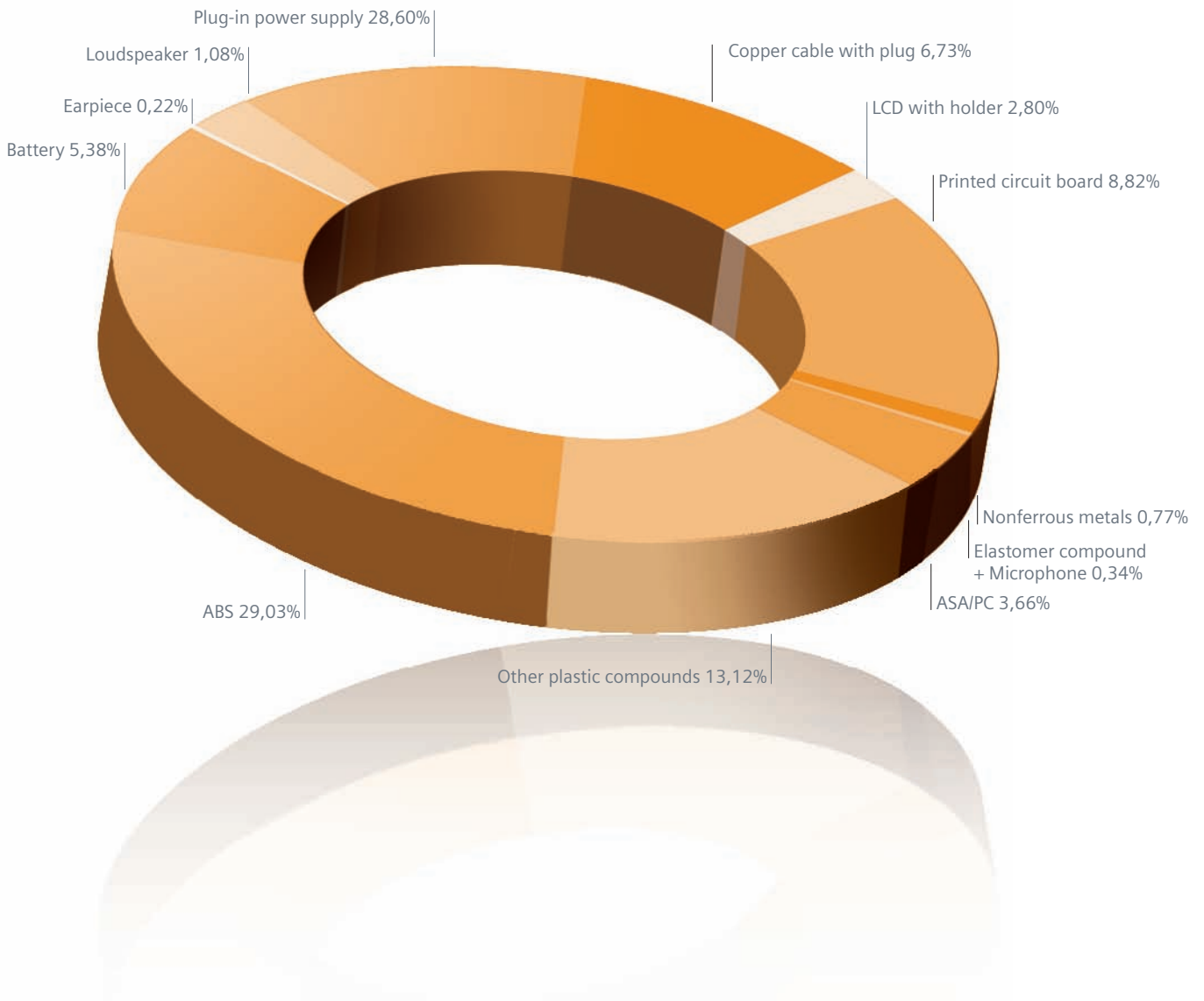
#### Power reduction for handset



4. For many years, Gigaset DECT handsets have enabled the automatic adjustment of transmission power – depending on the distance to the base station. For example, transmission power is reduced by approximately 80% at a distance of up to five metres.

## 6 Environmental protection begins in the product creation phase

Gigaset E49H handset + E490 base station

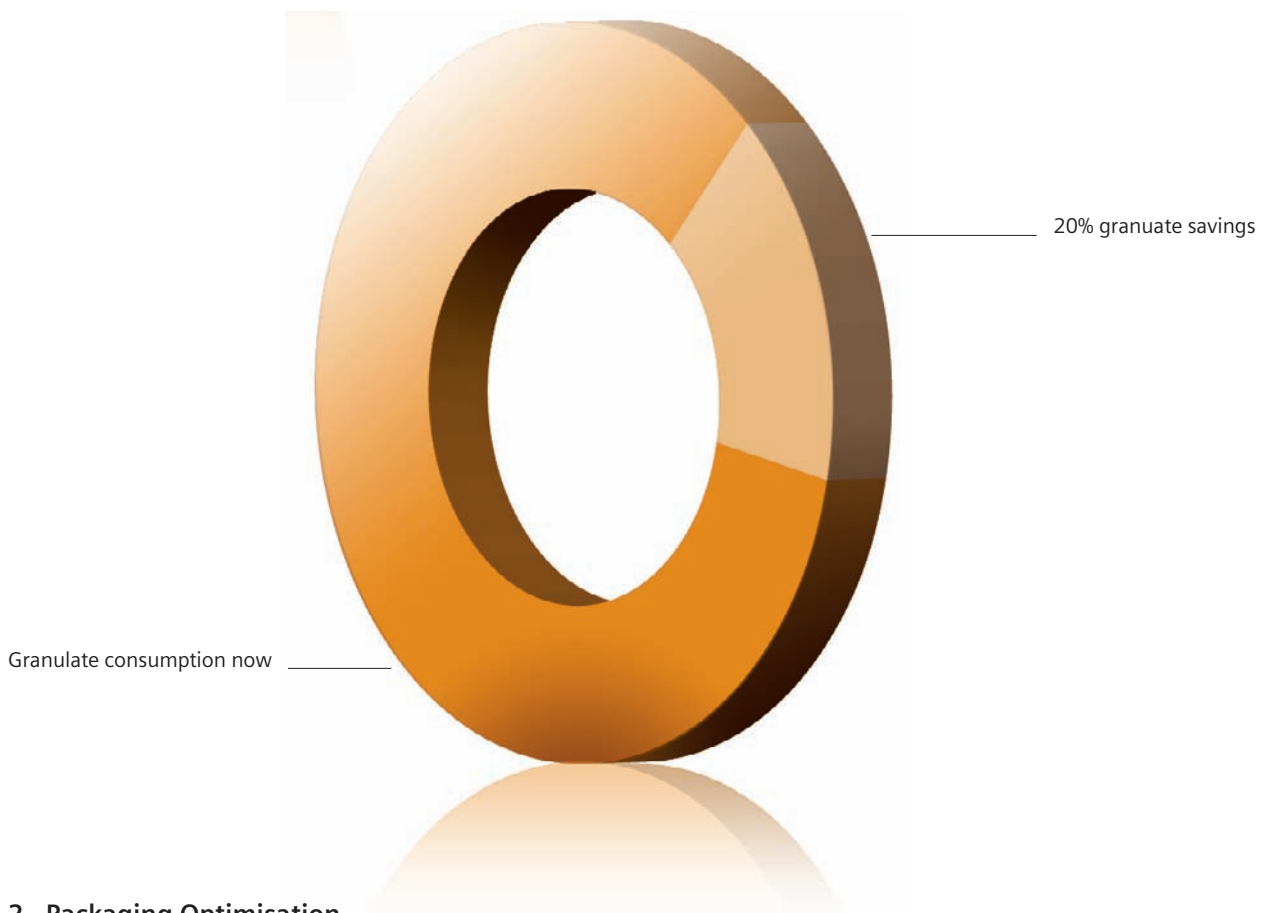


## 7 Material savings

### 1. Thin-wall technology

Over the last few years, thin-wall technology has been successfully implemented in phone cases. During this time, wall thicknesses have been reduced from 2.5 mm to 2.3 mm and now average about 1.8 - 2 mm. This corresponds to granulate savings of more than 20%, without sacrificing mechanical stability or robustness.

#### Granulate savings with thin-wall technology



### 2. Packaging Optimisation

The size and weight of the packaging has been optimised to be in accordance with shipping standards. The primary aim of this is to reduce transportation costs for the entire product portfolio.

The basic purpose of primary packaging is to protect the product. Drop and continuous shock testing (simulating transportation) are required. We use LD-PE film to protect the surfaces of certain parts, as well as 100% recycled corrugated cardboard as packing material. Film usually accounts for around 4% of the total packaging. Both the film and cardboard can be recycled.

## 8 Manufacturing

### 1. Environmental requirements

The Gigaset E490 and E495 are manufactured exclusively in Germany. Gigaset Communications attaches prime importance to compliance with all relevant laws and regulations. Through its management system and environmental performance Gigaset Communications is able to meet these requirements and continue to improve. It goes without saying that Gigaset Communications also respects all local environmental requirements.

### 2. Effects of automation

The high degree of automation in Gigaset Communications production processes has a limited impact on the environment through energy saving and efficient machine utilisation. For example, the electronic circuit board of these devices is produced solely on a production line with a cycle time of under 6 seconds and an efficiency greater than 75%.

### 3. Manufacturing concepts

Gigaset Communications believes in a short feedback path for testing. All process parameters are controlled cyclically so that any problems can be detected promptly (before they arise) and non-conformance is minimised. Every step in the value chain is checked separately to help identify potential errors at an early stage.

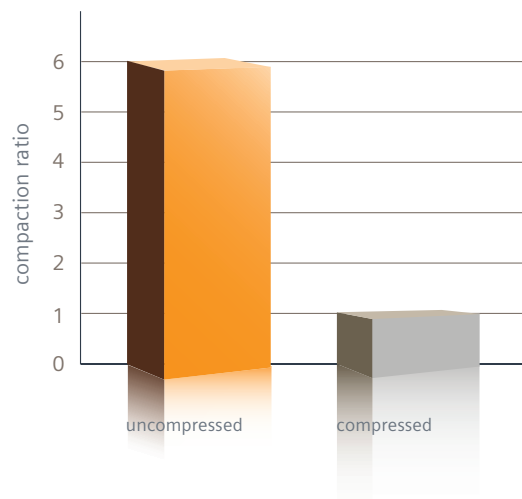
Process controls and short feedback paths for testing therefore minimise material waste (components and process aids). Rejects are continuously monitored with the goal of achieving a rate of less than 1%.

### 4. Refuse disposal

Packaging material and electronic scrap are strictly separated in "environmental islands" at Gigaset Communications' production facilities and recycled by local service providers. To reduce volume, the individual materials are compacted by roller presses. The compaction ratio for cardboard boxes is, for example, 6:1. This enables more efficient transportation of around 800 tons of cardboard per year.

### 5. Work safety

Gigaset Communications is especially committed to protecting the health and safety of its manufacturing employees. This is why Gigaset Communications takes such great care to protect its employees in the workplace. This includes steps such as responsible management, instruction, sensitisation and process engineering, prevention of and planning for emergencies, systematic investigation into the causes of accidents, quick availability of medical aid, documentation, regular reporting and continuous improvement





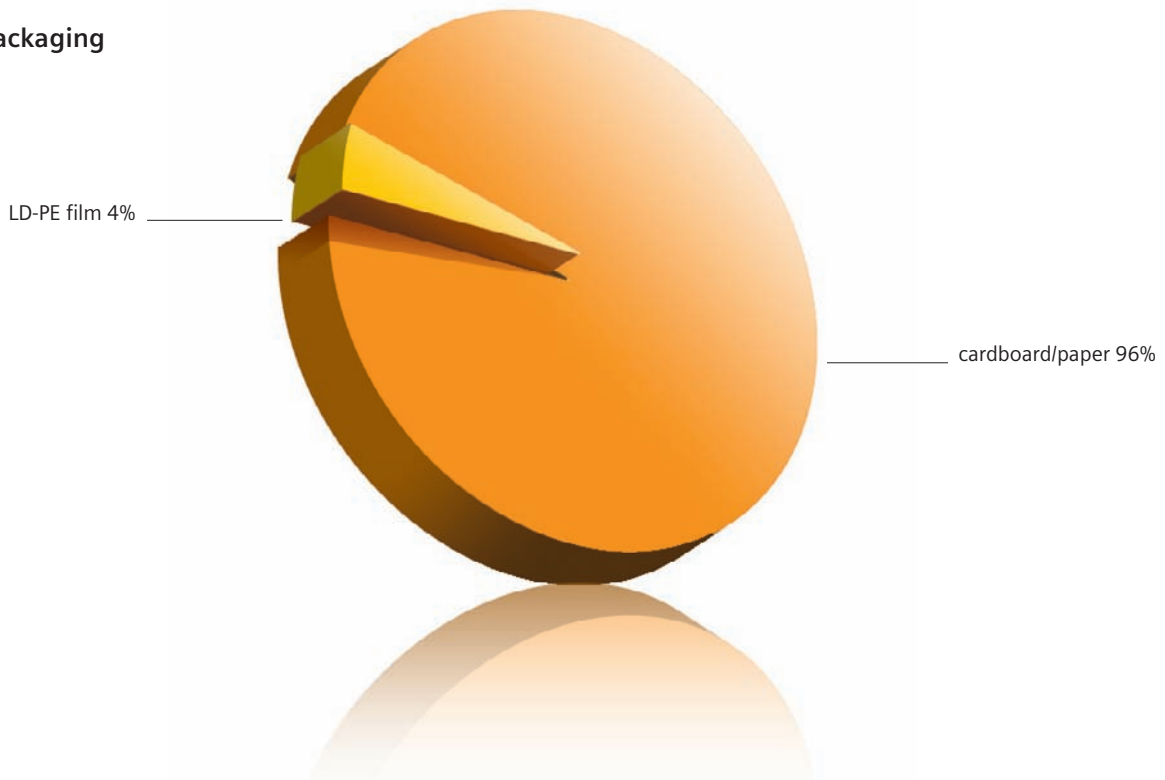
## 9 Transport packaging

All suppliers of packaging to Gigaset Communications GmbH are members of RESY (Organisation für Wertstoff-Entsorgung GmbH). RESY, an organisation for the disposal of valuable materials, was established in light of the German Packaging Ordinance. This ensures the return and recycling of paper and cardboard packaging used in transportation within Germany.

Each user is given a four-digit ID that, along with the RESY symbol, must be printed clearly and visibly on paper and cardboard transport packaging.

All secondary packaging has the RESY symbol on it to indicate that the specifications of the Packaging Ordinance for transport packaging have been met.

### Packaging



## 10 Distribution

When goods are shipped to the customer, they are consolidated regionally at the Siemens AG level and then distributed as part of the IDS network. As a result, the cargo space in each means of transport is optimised.

The Gigaset Logistics Network (GLogN) is the basis for the efficient and secure movement of goods. The core of this transport network is a pool of highly qualified service providers who offer the best prices and performance thanks to the pooling of Gigaset-wide needs.

The use of transportation resources is being optimised by continuing improvements in the size of product packaging. The packaging units of our suppliers are optimised ahead of procurement to ensure the means of transport is fully loaded (e.g. containers in the case of sea freight).

In overseas logistics chains, we try to ensure that marine transport is used as frequently as possible. Transportation of goods by rail or inland waterway is preferred over trucks because it reduces emissions by 50%. Air freight for transporting goods internationally is the exception and out of principle shipment by sea has priority.



## 11 Disposal

### Our takeback concept

In accordance with European directives on the disposal of electrical waste and electronic equipment (2002/96/EC), packaging (94/62/EC) and batteries (2006/66/EC), these waste materials may not be thrown away as domestic refuse. The relevant national statutory regulations must be observed and the waste must be disposed of via the approved channels.



## 12 Our service concept

### In case of fault

If a device should ever prove faulty, it is not replaced by a new one but repaired and returned free of defects to the customer. This concept has significant advantages. When devices are replaced by previously repaired products, the law requires that cosmetic parts, such as cradles, receiver insets or microphones, are also replaced. Our service concept eliminates this, which saves materials and resources.

This product environmental statement is not a warranty for the qualities of a product. It also does not warrant that the product retains a specific quality for a specific length of time. It is for information purposes only. We reserve the right to modify product design and specifications without prior notice. Please contact your Gigaset representative to get the latest information.

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