



Polycarbonate in Denmark: A major contributor to the country's economy and quality of life

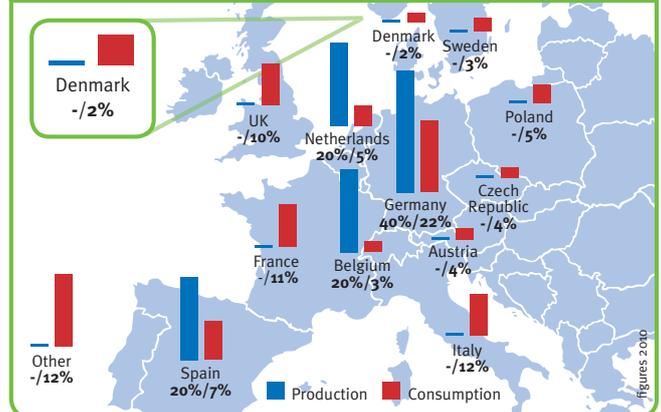


Polycarbonate is a lightweight, highly versatile, durable, heat and shatter resistant, formable and transparent thermoplastic. It is the material of choice for a wide range of end-user applications as diverse as DVDs, spectacles and optical lenses, car headlamps and parts, transparent roofs in construction, or medical devices.

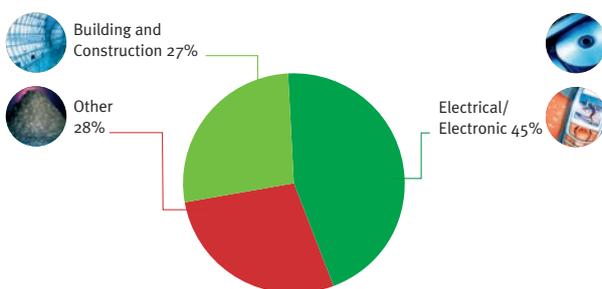
Denmark has no own polycarbonate production and therefore depends on imports from other countries to supply its Danish industries' needs of this high performance plastics material. However, due to its function as enabling technology, **nearly 8,000 jobs were related to the use of polycarbonate in Denmark in 2010**. In that year, Denmark consumed about 2% of the EU production of polycarbonate, thereby generating ca. 450 million Euro of value added.

Over 70% of the Danish consumption of polycarbonate is concentrated in two key economic sectors in Denmark: the Electrical and Electronics industries and Building & Construction; other important sectors are medical devices and toys.

European production and consumption of polycarbonate by countries



Danish consumption of polycarbonate by sectors



The Danish **Electrical & Electronics** sector supports nearly 62,000 jobs and generates an output of 16 mio Euro. Here **polycarbonate is used as a critical component in many technically complex and safety related applications**, such as fire retardant computer housings, electrical installations in private homes and large public buildings, consumer electronics and domestic appliances.

In many of these applications polycarbonate is critical to transforming the functional characteristics of components or end uses. This means: Polycarbonate cannot be replaced by any other material if the same material performance characteristics are required. This is particularly the case in the

* All figures in this document are based on the year 2010. The figures have been determined in a conservative approach ensuring that only the jobs and value added that could be uniquely attributed to polycarbonate should be counted in this value chain.



medical applications sector, where hygiene and sterilisability over multiple re-uses as well as highest possible inertness and transparency is required. **Almost 20,000 jobs in about 200 medical technology companies in Denmark are related to the use of polycarbonate technology.**

Polycarbonate is a dynamic enabling platform technology for innovation, thus helping to sustain Denmark’s manufacturing base. The competitive position of a significant number of leading Danish companies depends upon the continued exploitation of the many and unique properties of polycarbonate. It offers solutions to modern societies to meet the emerging needs for lower weight, greater safety and security, lower risks and improved well-being, while at the same time reducing costs and improving the product performance.

Polycarbonate added value and unique applications in Denmark



figures 2010

Danish polycarbonate consumption: industrial cluster regions



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