

## ECOLOGICS COLLECTION

Office carpets made of recycled polyamide

Unison of nature and product

Sustainable development implies meeting the needs of the present without compromising the ability of future generations to meet their own needs.

Weltkommission für Umwelt und Entwicklung, Brundtland Bericht 1987  
(World Commission on Environment and Development, Brundtland Report 1987)

### Raw Material

For more than 20 years now environmentally friendly, economic and socially responsible behavior has been one of the basic principles of TOUCAN-T Carpet Manufacture

Following the idea of sustainability we have developed the ECOLOGICS collection – office carpet with a high recycling content.

A yarn called ECONYL forms the basis of all new products of our ECOLOGICS collection. ECONYL is made of recycled “post consumer” and “post industrial” polyamide. 10 kg ECONYL can be recovered out of 11 kg recycled polyamide.

Compared to conventional polyamide, with ECONYL the environmental effects of yarn manufacturing are reduced considerably:

15% less water demand

80% less organic waste

85% less greenhouse gases

Reduction in crude oil demand of 1 t per t polyamide

reduction in CO<sub>2</sub> output by 2,000 kg per t polyamide

### PRODUCTION

ECOLOGICS:

... is manufactured 100% by using renewable energies

- tufting
- finishing
- coating

... is manufactured with a support fabric made of 100% recycled PET (from PET bottles)

### USE

1. Because of their optimized tufting construction using high-quality brand name yarns, TOUCAN-T carpets are extremely durable and suitable for permanent installation in areas where caster chairs are used.

2. That increases the long life of our carpets and reduces life-cycle costs as well as negative environmental effects.

3. Comparing a service-life of 5 or 10 years respectively, the yearly product costs are reduced by approx. 50%, the live-cycle eco-balance improves by approx. 45%\*

4. The special color selection of the ECOLOGICS collection is especially effective in hiding soil and making stains appear less obvious.

\*calculated based on EPD-GUT-2009211-D

### PRODUCT SAFETY

1. All TOUCAN-T products are subject to a continuous internal and external control in order to guarantee

highest product safety – concerning technology as well as health

## 2.TOUCAN-T office carpets

- are CE certified
- are tested and controlled by DIBt (emission behavior)
- are certified GUT (emission behavior, pollutants, odors)  
(GUT Carpets tested for a better living environment [www.gut-ev.de](http://www.gut-ev.de))
- comply with the requirements for the use in buildings certified by DGNB (German Sustainable Building Council) and LEED (Leadership in Energy & Environmental Design)
- is to be valued by EPDs on hand (Environmental Product Declaration)

Yarn production and carpet finishing are certified according to the Environmental Management Systems ISO 14001:2004

3.Process waste is correctly sorted and recycled

## RECYCLING

### \*PRESENT

After their useful life, carpet floor coverings stand out for a high heating value and calcium content, they are particularly suitable for the use as derived fuel and raw material in the cement industry or they are used in thermal recycling.

Today, with regard to energy, a mixture of these alternatives is the most effective way of recycling carpets. The ecological potential of recycling can only be further improved by complete and correct sorting of raw materials compared to the setting mentioned above.

Nevertheless, the European research project RECAM (Recycling of Carpet Material) has shown that, with regard to state-of-the art technology, this approach does not make sense either organizationally or economically.\*

### \*FUTURE

TOUCAN-T is working hard on the development of new carpet backing systems with better constructions, so that in the future selective separation of materials and recycling of our wall-to-wall carpeting will be even easier.

\*source: Carpet Recycling Update 2009\* written by GUT E.V. Aachen