



finer fibers,  
softer feeling



 **Tencel™**  
Feels so right

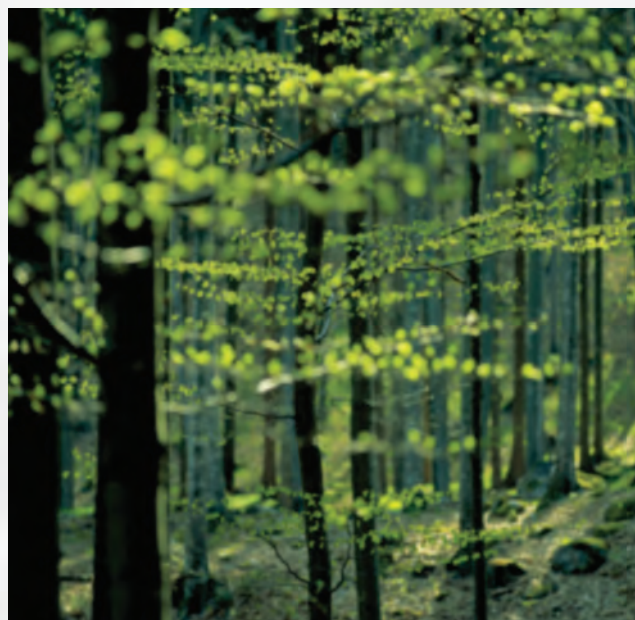
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**Micro**  
technology

# TENCEL™ Modal quality on a finer scale

TENCEL™ Modal fibers with Micro technology from Lenzing bring a natural touch into your wardrobe and everyday life. Owing to their exceptional fineness, they offer exquisite softness, giving natural comfort. These fibers meet demanding standards and embody all the sustainability and versatile functionality for which the TENCEL™ brand is renowned.



## the cycle of sustainability

**TENCEL™ Modal fibers are derived from the natural raw material wood, harvested from certified and controlled sources in Europe. They are produced by an eco-responsible process with low resource usage, as well as minimized water pollution and emissions.**

The fibers are certified with the EU Ecolabel for textile products (license no. AT/016/001), a label of environmental excellence only awarded to products and services which have a low environmental impact throughout their lifecycle. All TENCEL™ Modal standard fiber types have been certified as biodegradable and compostable under industrial, home, soil, fresh water and marine conditions, thus they can fully revert back to nature.



# Micro technology

## Micro technology for finer and lighter fibers

Micro technology is applied to TENCEL™ Modal fibers to produce LENZING™ Modal Micro, LENZING™ Modal Micro Air and LENZING™ Modal Micro Eco Clean. It offers an even finer quality of lightness and exquisite softness, producing lightweight fabrics.

Using Micro technology, TENCEL™ Modal fibers are extra fine and light cellulosic fibers from sustainable wood sources. TENCEL™ Modal fibers with Micro technology pioneer a new dimension of exquisite softness and lightness, offering long-lasting natural comfort. Fabrics containing TENCEL™ Modal fibers offer efficient moisture absorption to ensure natural skin comfort.

| Fiber Portfolio                       | Titer dtex | cutting lengths mm |
|---------------------------------------|------------|--------------------|
| LENZING™ Modal Micro fibers           | 1.0        | 34/39              |
| LENZING™ Modal Micro Air fibers       | 0.8        | 34/38              |
| LENZING™ Modal Micro Eco Clean fibers | 1.0        | 39                 |



## proven softness



For a comfortable feeling, softness is one of the determining parameters. The finer the fibers used in textiles, the softer they tend to be. TENCEL™ Modal fibers with Micro technology are among the finest cellulosic fibers available, bringing exceptional long-lasting softness and comfort to wearers.

TENCEL™ Modal x Micro Air fibers are Lenzing's finest and lightest wood-based fibers. With this 0.8 dtex fiber, finer yarn counts can be produced, leading to finer and more lightweight fabrics for more luxurious products.

# how to measure softness

Lenzing panels provide precise evaluation of textile handfeel parameters such as softness, smoothness, and drape, supported by physical measurement methods and comparative external expert and consumer evaluations. Panel assessment as well as physical measurements shows that the finer the fibers used in textiles, the softer and lighter the resulting fabrics.

### handfeel evaluation

smooth ≠ rough  
drapy ≠ stiff  
soft +/-

#### 1. panel training

- 20 – 30 participants
- based on AATCC 5-2006

#### 2. test

- define parameters
- evaluation sheet
- define reference fabrics

#### 3. result

#### 4. additional physical methods

- tissue softness analyser
- handle-o-meter
- ring pull-through



### featherlike touch and fine softness for comfort

The finer the cellulosic fibers used in textiles, the softer they will be, leading to a pleasant fabric perception on human skin. TENCEL™ Modal fibers with Micro technology are very fine cellulosic fibers, which makes them delicate and supple. Textiles produced with these fibers are very pleasant to the skin.



### comfortable next to skin

Both dry and moist fabrics made of TENCEL™ Modal fibers with Micro technology were perceived as more pleasant in frictional strain tests on human skin than cotton and polyester fabrics. Furthermore, fabrics made of such fibers displayed a far lower frictional coefficient under humid conditions.\* This makes these fibers most recommendable for textiles worn next to the skin.



### soft and natural drape

TENCEL™ Modal fibers produced with Micro technology give the fabric a flowing drape, enabling more fluid garments to be created.

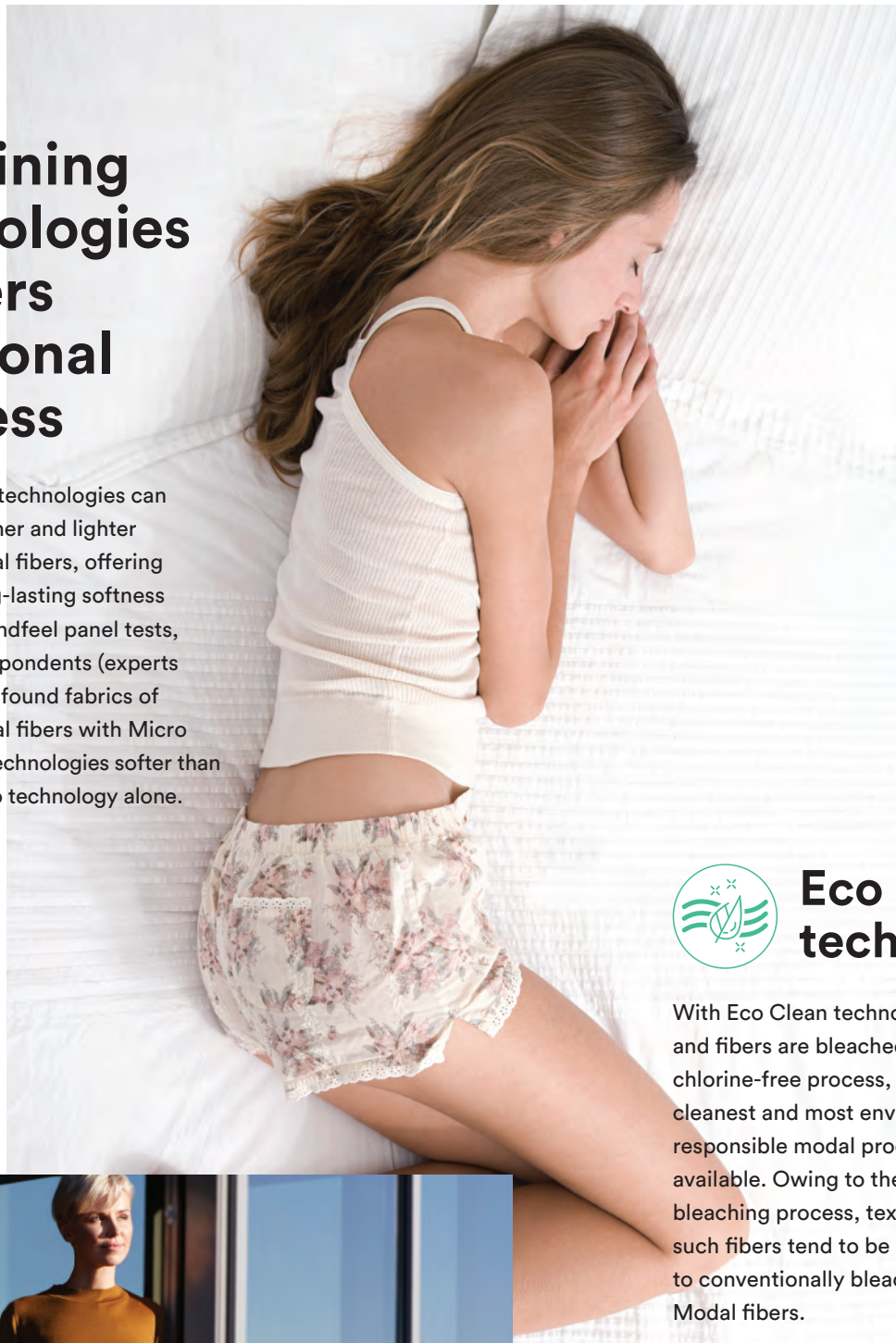


### superb lightness

TENCEL™ Modal fibers with Micro technology can result in very fine yarns, which are processed into very light knitted and woven fabrics.

# combining technologies delivers additional softness

Combining two technologies can produce even finer and lighter TENCEL™ Modal fibers, offering impeccable long-lasting softness to textiles. In handfeel panel tests, a majority of respondents (experts and consumers) found fabrics of TENCEL™ Modal fibers with Micro and Eco Clean technologies softer than those with Micro technology alone.



## Eco Clean technology

With Eco Clean technology, both pulp and fibers are bleached by a totally chlorine-free process, delivering the cleanest and most environmentally responsible modal production available. Owing to the gentle bleaching process, textiles made of such fibers tend to be softer compared to conventionally bleached TENCEL™ Modal fibers.

Fibers with Eco Clean technology are produced exclusively in Austria from sustainably managed wood sources. Special identification technology makes them identifiable in all steps of textile processing, improving supply chain transparency.



# contact for further information

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