

**OLEA – Hydrophobic Viscose Fibre**

**Olea** is a viscose fibre with incorporated permanent hydrophobicity based on covalently bound water repellent hydrocarbon chains inside the fibres.

Olea is **hydrophobic**, the contact angle with water is approximately 100°.

Olea fibres **regulate moisture and humidity** by absorbing and desorbing humidity from the air as their cellulosic base structure was not modified by the hydrophobic functionalisation.

The agents used for fibre modification are approved by FDA and BfR for the manufacture of products with **food contact**.

The fibres are **silicone and fluorine free**.

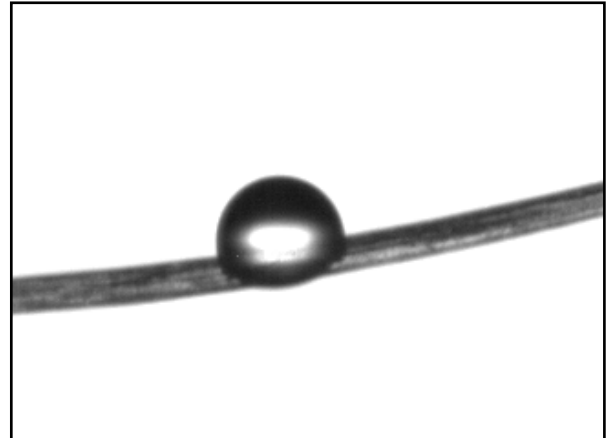
Olea can be used in 100% or in blends with other fibres and materials such as viscose, cotton, synthetics or wood pulp for the manufacture of

- Textiles
- Nonwovens, e.g. coversheet
- Speciality papers

Processing of Olea is possible on common spinning, nonwovens and wetlaid technologies.

Surfactants cause wetting of the fibres. Hydrophobicity can be restored by washing them off thoroughly followed by thermal drying.

**Hydrophobicity**



**Availability**

Decitex	Staple (mm)	Lustre
1.3	40	bright
1.7	40	bright
1.7	5	bright

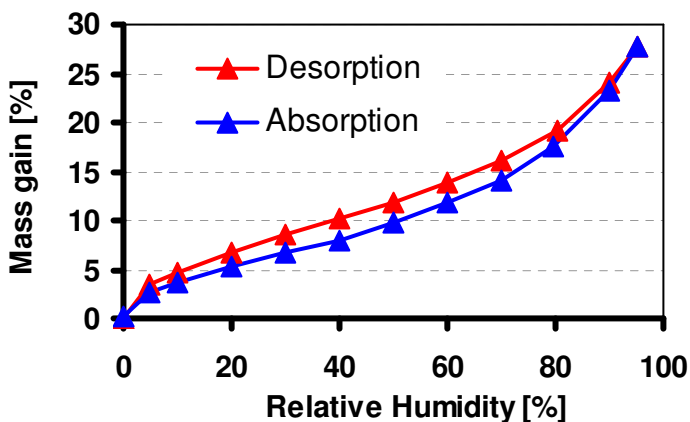
Other dtex/staple lengths available on request

**Property Profile**

Fibre property	Unit	Olea
Tenacity	cN/tex	16 – 24
Elongation at break	%	14 - 22
Contact angle (water)	°	~ 100

Olea is a development product, fibre properties may vary

**Adsorption Isotherm of Olea at 25°C**



For more information about our products please email to: [functionalfibres@kelheim-fibres.com](mailto:functionalfibres@kelheim-fibres.com) or call Germany +49-9441-99219. Please visit also our website [www.kelheim-fibres.com](http://www.kelheim-fibres.com) .

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