

Technical Data Sheet

Rayon Fibers

LYOCELL

Product Code Prefix: RALYC

General Description: Lyocell is a fiber composed of regenerated wood cellulose precipitated from an organic solution in which no substitution of the hydroxy groups takes place, and no chemical intermediates are formed. It is a semi-synthetic fiber made from responsibly sourced wood pulp using non-toxic solvents such as amine oxide, in an efficient and eco-friendly closed loop manufacturing process.

Standard Filament Size: 1.5, denier per filament (dpf)

Standard Cut Lengths: 1/4", 1/2", 3/4", and 1"
(7mm, 13mm, 19mm, and 26mm)

Flock and other lengths available upon request.

Shrinkage,: Data not available.

Breaking Tenacity: ~3.7 gpd

Initial Moisture Content: 5.0 to 11.0%

Average Moisture Regain of Rayon: 11.0%

Specific Gravity: 1.5 g/cm³

Effect of Heat: Does not melt or soften. Stable at 115°C for up to one hour. At higher temperatures or longer exposure, fibers will yellow. Extended exposure to high temperatures will reduce tenacity. Thermal decomposition begins at >175°C.

Chemical Resistance: Insoluble in common organic solvents. Will be dissolved by diluted hot or concentrated acids. Caustic soda at 8-10% concentration will attack fibers at room temperature.

Performance Characteristics: High absorbency and moisture wicking properties. Breathable; dries relatively quickly. Soft and flexible. Higher tenacity than Viscose. Biodegradable and compostable.

Dispersion: Easily dispersed in aqueous and non-aqueous systems. Surface treatment to aid dispersion applied as required.

Packaging: Fiber is packaged in corrugated boxes with polyethylene liners. Custom packaging available upon request.

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