

How to predict the quality, strength and uniformity of a fiber reinforced composite?

The length and other geometrical properties of rCF (recycled carbon fibers) are determinant parameters in the production of composite materials containing rCF. RCF staple fibers (fibers with finite length) are available as: roving snippets (fiber collectives) or single fibers.

Detect regularities or irregularities

Sampling inspection of purity or uniformity or the control of geometric characteristics help to improve later process steps.



Create a high-quality product

The measurement system **FibreShape** provides the user with the safety of a standardized quality measurement. FibreShape can be used for entrance control of the length and width of rCF as well as to control the fiber length as part of the processing chain.

Consider that when working with short-fiber composites there is relatively little interface per fiber for the transfer of stress

The fiber length is a key characteristic important in the production. The so-called "critical length" of carbon fibers is approximately 5 mm. This length is necessary to ensure that the fiber can be stressed



IST AG - Fiber & Particle Analysis Ringstrasse 29 CH - 7324 Vilters Switzerland www.istag.ch