PHOTON KINETICS

2311 Fiber Curl System

Compact, precise curl measurements for post-draw process control and final fiber QC

Features

Side View Microscope Technique

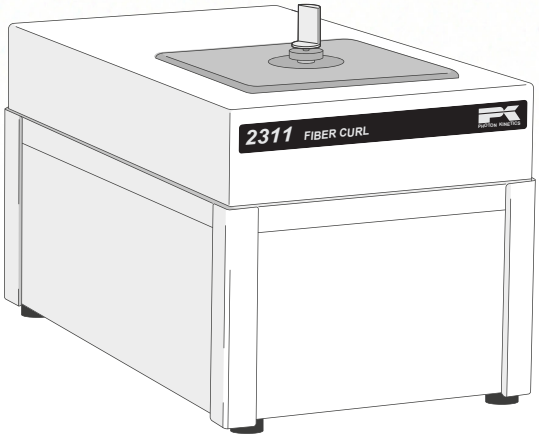
- Fiber sample is restrained in a PK fiber and loaded onto the 2311 rotating measurement stage, with sample extending into its measurement cell.
- Images of fiber in cell are automatically focussed and acquired at several, user-specified rotational angles.
- Image analysis locates fiber end at each rotational angle and the maximum lateral displacement of the fiber, indicative of curl radius, is determined.

Fast Fiber Prep, Loading and Measurement

- Characterizations performed on short, partially stripped fiber samples.
- Fully automated video alignment and rapid data acquisition allow fibers to be characterized in less than 15 seconds.

Stand-alone System or Add-on Option

- Internal illumination allows the 2311 module to be deployed as a stand-alone measurement system, or as an add-on option to any 2300 Fiber Analysis System.





Fiber Curl

For more information contact
sales@pkinetics.com

Specifications

Measurement	
Compatible Fibers	Nominal cladding OD ≤ 125 µm Curl radii from 1 to 100 meters
Standards and Methods	IEC 60793-1-34, Side View Microscopy
Performance	
Repeatability (%) [1]	< 1.0
Reproducibility (%) [1]	< 2.5
Measurement Time (s)	< 15
Physical and Environmental [2]	
Dimensions	10.25 in W x 11.5 in H x 18.0 in D 26.0 cm W x 29.2 cm H x 40.6 cm D
Weight	26.5 lbs (12 kg)
Power	100-240 V ac, 2.5 A max., 50/60 Hz
Temperature (°C) Operating Storage	 10 to 30 0 to 50
Humidity	< 80% RH, non-condensing

Notes:
1. *7 rotational angles, 1-sigma, for fiber having 4-meter curl radius.*

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Specifications subject to change without notice

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