**High-Performance Sustainable Tissue Paper from Agricultural Residue: A Case Study on Fique Fibers from Colombia**

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### Zero Span Tensile Strength

**Figure A 1**. Zero span tensile strength (expressed as breaking length) of fique residue and NBSK pup measured at different pulp freeness. Error bars represent one standard deviation.

### Tensile stiffness of individual pulps

**Figure A 2.** Tensile stiffness of fique residue bleached pulp and NBSK pulp at different pulp freeness. Tensile stiffness was measured from the stress-strain curve generated during the tensile testing by the Instron. Error bars represent one standard deviation.

### Surface Smoothness/Roughness (TS750) of Individual Pulps

**Figure A 3**. Surface smoothness/roughness (TS750) of individual pulps plotted against the tensile index of tissue handsheets. A lower value represents smoother surface. Error bars represent one standard deviation

### Surface Smoothness/Roughness (TS750) of pulp blends

**Figure A 4.** Surface smoothness/roughness (TS750) of pulp blends plotted against the tensile index of tissue handsheets. A lower value represents smoother surface. Error bars represent one standard deviation.