

Overview of Pulp and Paper Capabilities

Furnish Analysis	Furnish Type	Lab Pulping	ECF/TCF Bleaching
Moisture, Density, Ash Specific gravity	Northern and Southern HW & SW	Kraft Linerboard	Acidic (Hexenuronic Acid) Q, O ₂ /NaOH, ClO ₂ , O ₃
Bark, Dirt	Recycled	Kraft Bleachable	H ₂ O ₂ , CH ₃ CO ₃ H, E _o , E _p , E _{op} FAS, Na ₂ S ₂ O ₄ , NaBH ₄
Lignin	Nonwood fibers	Soda, Soda/AQ	Activated Peroxide -NH ₂ CN, TAED
Cellulose, Hemicellulose	Tropical HW & SW	OrganoSolv Sulfite ASAM	-PAG, per-Borate -Metal Catalysts -H ₂ O ₅ S -DMD
Extractives, Tannins			Xylanase, Laccase Peroxidase
Non process elements (NPE)	Analysis: Yield, Kappa #, Brightness, Scattering, Absorption, Opacity, Viscosity, Fiber Charge, Cu #, HexA analysis, CIE L*a*B*, Oxalic acid, Pre/Post PFI Refining: Basic Weight, Caliper, Bulk, Density, Tensile, % Strain, TEA, Bust, Tear, Fold, STFI, Ring Crush, Zero Span, Stiffness, ZDT, Fiber Length/ Curl/Kink, Porosity, WRV, Friction, Water Retention, Drainage, Vertical Wicking, Contact Angle Measurement		