

## RECORDED BENEFITS

- Wet and dry tensile specifications maintained
- Equivalent dosage performance to existing Kymene 821 program
- Reduction of 12.5 TPY in VOC
- Elimination of 15 bulk deliveries per year
- Freight savings of \$33,000 per year

## Towel Producer Improves Mill Efficiency and Reduces VOC

### Kymene™ 1500LV Wet Strength Resin

#### Customer Challenge

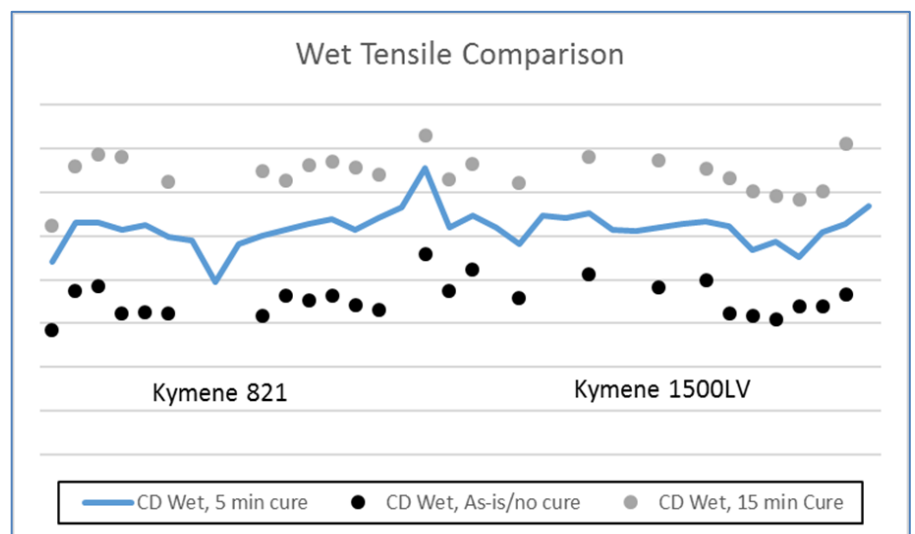
A North American producer was making performance towel using a blend of softwood Kraft and eucalyptus fiber. The mill is heavily regulated for air emissions and was interested in reducing VOCs to remain within permit limits. Logistics issues with bulk carriers were costing extra man hours of attention due to carrier shortages.

#### Recommended Solution

Upgrade the wet strength program by replacing the traditional wet strength resin with Kymene 1500LV. This new technology improves worker health & safety and sustainability while preserving G1 resin cost performance. Monitor ultimate wet tensile, wet/dry dosage performance and wet strength to dry strength ratio.

#### Results Achieved

Consistent performance was achieved while increasing chemistry active solids by ~ 20%. Strength performance was equivalent while maintaining stability in furnish mix, refining and drying energy. Best practices around product storage, dilution and feed were reviewed and updated.



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