

## SOLUTION

- Create proper technology to recycle these resources into paper pulps
- Create a similar technique with the potential to recycle these resources
- Complete removal of polymer layer by completely chemical method

## OUR TECHNOLOGY PROPS

- Chemical environmentally friendly recycling method
- The entire process is in one line
- No complex procedure
- Cost and energy efficient
- Validated technology

## WHY RECYCLE?

- **12-31** trees are saved for each ton of recycled paper
- **70%** save in energy
- **80%** save in water
- **74%** reduction in gas emission
- **35%** reduction in water polluting emissions

## PROBLEM

- **300 ton per day** coffee cups are thrown away in Canada
- Hard to recycle because of the coffee cup
- Bury in landfills or Incinerated
- Continue cutting trees to manufacture paper-based products



**GREEN TECH  
GIVES THE WORLD  
ANOTHER CHANCE**



**14B**  
CUPS  
THROWN AWAY  
PER YEAR

**300**  
TON  
THROWN AWAY  
PER DAY



**POLYMER COATED  
PAPER  
RECYCLING**

Get in Touch

+1 (343) 558-0598

info@nanocycles.ca   
www.nanocycles.ca

linkedin.com/company/nanocycletech



# SILICONE PAPER RECYCLING

Silicone papers are used for printing, protecting and separating adhesives and materials and label production.

Their applications include but are not limited to:

- Bakery, and parchment paper
- Multilayer silicone paper is used for pressure sensitive stripes and labels
- Laminates and Tapes
- Papers and Films



## WHAT IS SILICONE RELEASE PAPER

Adding a silicone layer on one or both sides of the substrate paper.

Characteristics:

- Non-sticky
- High thermal stability
- High chemical stability
- Hydrophobic



## Benefits of Paper Recycling

- Reduces greenhouse gas emissions that can contribute to climate change by avoiding methane emissions and reducing energy required for a number of paper products
- Extends the fiber supply and contributes to carbon sequestration
- Saves considerable landfill space
- Reduces energy and water consumption
- Decreases the need for disposal (i.e. landfill, incineration which decreases the amount of CO2 produced)

## OUR TECHNOLOGY PROPS



### Cost & Energy Efficient

The whole production process is performed at low temperatures and air pressure



### Recyclable Materials

Using water and material in the process over and over again



### Green Technology

No harmful chemical matters



### No Complex Procedures

Separating, Washing, Drying, Kneading, Producing

## Market Size

- 27% demand for silicone paper in North America
- Minimum of 500,000 tons of silicone coating for liners in pressure sensitive industry
- Less than 1% is recycled

## SILICONE RELEASE LINERS MARKET OUTLOOK

Year	Market Size
2016	0.94 B US Dollar
2021	1.21 B US Dollar
2022	1.32 B US Dollar
2023	1.39 B US Dollar
2032	2.78 B US Dollar
2033	2.93 B US Dollar

## AWARDS & RECOGNITION

