BIOCHOICE™
LIGNIN

Domtar
BioChoice™ lignin is a bio-based alternative to the use of petroleum and other fossil fuels. After cellulose, lignin is the most abundant organic polymer on Earth. As a by-product of the kraft pulping process, lignin is typically burned to provide energy to run the mill.

Beyond its internal use as a fuel, applications for BioChoice lignin exist in the energy, materials and chemical industries.

» ADHESIVES
» AGRICULTURAL CHEMICALS
» CARBON PRODUCTS (e.g., CARBON FIBER, GRAPHITE, ACTIVATED CARBON, etc.)
» COATINGS
» DISPERSANTS
» FUELS AND FUEL ADDITIVES
» NATURAL BINDERS
» RESINS

BioChoice Lignin Product Attributes:

» TOTAL LIGNIN > 95% OF TOTAL SOLIDS
» LOW ASH
» LOW SULPHUR
» SINGLE SPECIES – SOUTHERN PINE
The town of Plymouth was founded in 1787 along the banks of the Roanoke River. One of eastern North Carolina’s first forest products mills, the Plymouth mill was established in 1937 as part of the North Carolina Pulp Company. The mill has continued to evolve over the decades and, with a modern kraft pulp mill and new lignin separation facility, will be an industry leader for years to come. Target capacity stands at 75 tons per day of lignin, or roughly 25,000 tons per year.
Our vision is to be the leader in innovating fiber-based products, technologies and services, committed to a sustainable and better future.

As a world-class industry leader, our mission is to deliver the highest value to our customers, to empower our employees to excel and to positively impact our communities.

To achieve our goals we will rely on the three core values that unite us, define us and create our success together: Agility, Caring and Innovation.

**IT’S IN OUR FIBER TO BE AGILE**

Our industry is changing and so are we. When we need to change course, we do it. We are doers, not talkers, but when we act, we act thoughtfully. We’re always looking for simpler, more efficient ways to work.

**IT’S IN OUR FIBER TO BE CARING**

We look out for each other’s safety as well as our own, and we never forget that our company is woven into the fabric of our communities above all else.

**IT’S IN OUR FIBER TO BE INNOVATIVE**

We always look to the future beyond the horizon. We always want to make things better and we work together to do it. We bring our resourcefulness and creativity to bear for long-term success.
The development of this state-of-the-art facility was boosted by a U.S. Department of Agriculture and U.S. Department of Energy grant through the Biomass Research and Development Initiative. Domtar was awarded this grant by integrating science and engineering research toward bio-based product development.

A variety of potential product applications have been developed through research performed in conjunction with customers, Forest Products Laboratories and several universities, including North Carolina State University, Georgia Institute of Technology and Penn State University.

**LignoBoost™ Technology**

LignoBoost is a complete system from Metso that extracts lignin from kraft black liquor. This process separates, purifies, washes and presses the lignin.

The Plymouth facility represents the first commercial-scale installation of LignoBoost technology in North America.
WORLD CLASS CUSTOMER SERVICE

The Plymouth mill has a long history of dedicated customer service. Positioned near a deep water port and an interstate highway, Plymouth’s location is convenient and allows Domtar to service domestic and international customers easily.

At Domtar Plymouth, we are committed to:

• Meeting customer needs in an ever-changing competitive landscape
• Being a responsible steward of the environment
• Producing the highest quality products in a safe and cost-competitive manner
• Supporting our customers with an experienced technical staff
• Empowering employees to solve problems and address customer needs
• Providing continuing education to build employee skills

For convenience, we offer a rapid response inventory program.

Contact us at (877) 877-4682 for inquiries, samples and orders.
As North America’s largest integrated manufacturer and marketer of fine paper and a recognized leader in environmentally-sustainable practices, we believe our customers deserve even more. At Domtar, we strive to do everything—from the forest floor to your front door—to earn your confidence and your business through the offering of superior quality products, dedicated service and continuous innovation.