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August 17, 2020

New BreakThru™ Technology Reduces Free Formaldehyde in Phenolic Resins

ATLANTA – New BreakThru™ Technology from Georgia-Pacific Chemicals has been shown in laboratory testing to reduce free formaldehyde in phenolic FRP resins to less than 0.1%.

Reducing residual formaldehyde content in phenol-formaldehyde resins (phenolic resins) is a frequent request in composites and other industries. Phenolic resins used for industrial applications, such as abrasives, filtration, honeycomb, foaming, etc., historically contain free formaldehyde levels ranging from 0.3 % to greater than 1.5 %. In laboratory analysis, the new technology reduced the free formaldehyde in phenolic resins to below 1000ppm (or less than 0.1 %).

Analysis also shows that free phenol levels are reduced with the new technology and that resins with BreakThru™ technology have a faster curing profile. In addition, a honeycomb composite compressive strength study suggested improved performance in those applications.

Analytical studies of this technology will be presented as a technical paper at CAMX September 21-24, 2020 by Carlos Maldonado, Senior Development Chemist, Georgia-Pacific Chemicals. They will compare the new technology with a commercially available phenolic resin via thermal analysis, gas phase chromatography and high-performance liquid chromatography.

“This technology shows promise for a variety of industrial applications by potentially meeting or exceeding standard phenolic resin performance at lower residual monomer levels for both water and solvent-soluble resins,” says Frank Ludvik, Georgia-Pacific Chemicals Senior Sales Specialist.

Georgia-Pacific Chemicals will be featuring BreakThru technology at the Virtual CAMX conference September 21 – 24, 2020.

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Editor’s Notes: Company information About Georgia-Pacific Chemicals LLC

Georgia-Pacific Chemicals LLC, a wholly-owned subsidiary of Georgia-Pacific LLC, is a global performance chemical manufacturer and marketer recognized as a leader in chemicals for industrial specialty and building products applications. It has manufacturing operations in the United States and Chile with technology partners in Europe and China. For additional information, please visit www.gp-chemicals.com or call 1-866-4GP-CHEM (866-447-2436).

About Georgia-Pacific

Based in Atlanta, Georgia-Pacific and its subsidiaries are among the world's leading manufacturers and marketers of bath tissue, paper towels and napkins, tableware, paper-based packaging, cellulose, specialty fibers, nonwoven fabrics, building products and related chemicals. Its Georgia-Pacific Recycling subsidiary is among the world's largest recyclers of paper, metal and plastics. The company operates nearly 200 facilities and employs approximately 35,000 people directly and creates nearly 92,000 jobs indirectly. For more information, visit: gp.com.