



Ampac Flexibles - Sustainability Initiatives & Activities

Ampac Flexibles has at its core values the responsibility to deliver shareholder value and the added responsibility and desire to provide a positive influence or improvement on the environment it comes into contact with. This includes the local communities where Ampac operates, customers that purchase Ampac products, consumers using products that Ampac has a part in, and the environment that Ampac products come into contact with, from inception to waste. Sustainability plays a major role in this.

3Rs+1

Sustainability to Ampac includes the three R's plus one, Reduce, Reuse, Recycle and *Redesign*. Reduce is not only reducing the packaging Ampac produces, but reducing the energy and impact on the environment to produce those products. Reuse and recycle are a part of that, including internal recycling of materials. The last R is a continual commitment to redesigning packaging to meet the sustainability goals of Ampac, it's customers, consumers and the environment. This fits Ampac's innovative spirit and helps provide alternative sustainable choices to the packaging community.

Renewable Alternatives

Ampac strives to improve, or provide alternatives to packaging products with products that are more sustainable from an energy or material standpoint. Examples are Apex 3000 SF films produced with 100% renewable resources or with additives that initiate the breakdown or degradation of a film. Other Apex films and Flexi laminations are engineered to provide higher yields without compromising properties. This could mean replacing a thicker foil with thinner, or an ultra high barrier metallized film, designing the same sealant properties into a thinner film, or moving a three or four layer lamination into a two or three layer lamination. It could also mean replacing a non-renewable portion of the packaging with renewable. Ampac utilizes its technical expertise to engineer the best alternative for each application.

Flexible Packaging vs Rigid

Ampac is a leader in developing innovative pouches and flexible packaging that reduce the environmental impact involved in producing, storing, shipping, displaying and disposing of a package versus rigid alternatives.

The impact of the smaller footprint of flexible versus rigid packaging is dramatic and Ampac has been at the forefront of innovation in this area. Examples include PureFlex™ flexible beverage and water pouches versus rigid bottles, retort pouches versus cans or glass jars, bags and pouches for sauces and gravies versus cans or rigid containers for restaurants, pouches versus bag in box and formable films to replace rigid trays for packaging meats. All solutions provide alternatives to reduce the impact of packaging on the environment.

Improved Shelf Life

Ampac Flexibles has the technical expertise to identify the barrier requirements to improve the shelf life of packaged products. Whether this is a foil lamination to replace a non-foil, a metallized film, multilayer EVOH, SARAN, or nylon barrier film, films that provide hermetic seals, or other highly engineered coated or barrier alternatives, even breathable films, Ampac has the knowledge to impact products for longer shelf life and freshness. Doing so reduces the added impact on distribution and waste for shelf pulls and for production to replace the outdated material. This aspect of sustainability is often overlooked. The economics of a barrier package may appear as a higher cost per unit than a moderate or low barrier package. If the system cost is taken into consideration, the longer shelf life package wins. Adding in the environmental impact, a longer shelf life package wins hands down!

Internal Investments

Ampac has invested in technologies that use fewer resources and have less impact on the environment. Solventless laminations eliminate the need for solvents or gas fired ovens to dry the adhesive. This eliminates the exposure to and the need for a gas fired oxidizer to ensure volatiles are not entering the atmosphere. In addition, the waste from the solventless adhesive is not a hazardous waste. Even the impact and transportation involved in permits, inspections, hazardous material management and maintenance reduce the impact on the environment. This allows Ampac to provide our customers with the same properties in a lamination that has quite an impact on natural resources.

Ampac also invests in programs to educate employees on other aspects of sustainability. Simple changes such as utilizing office recycling, using the copier to email documents rather than print documents, and encouraging carpooling help to improve the awareness of reducing the impact on the environment for future generations.

Summary

From simple internal education, investments in technology and knowledge of highly engineered packaging structures, Ampac is dedicated to reducing the impact on the environment it touches. Ampac Flexibles is known as an innovative solutions provider for challenging packaging applications. These innovations not only provide solutions to package products, but to package those products more efficiently. This ultimately improves the environmental impact of packaging and helps meet the sustainable goals of Ampac, our customers and the environment for a better future.

Visit us at www.ampaconline.com/flexibles.php



Press release

For immediate release

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Ampac Flexibles Solventless Laminations Provide Sustainable Alternative to Packagers

Cincinnati, OH (July 21, 2008)—Ampac Flexibles, the flexible packaging division of Ampac Packaging LLC, announces energy audit results showing significant energy savings from solventless lamination technology at its Cary, Illinois, facility. Ampac’s Comexi laminator, is a versatile unit utilizing low viscosity adhesives to achieve strong interlayer lamination bonds.

Solventless laminating offers many advantages to Ampac’s customers. Among the advantages can be improved shelf-life, barrier, and appearance. The use of solventless laminating also eliminates concerns with the removal of retained solvents and volatiles associated with solvent laminations. A new, important benefit, in light of the dependence on energy and attention to green house gases (GHGs), is the improved adherence to environmental regulations and lower energy usage.

A recent study completed for Ampac measured the energy efficiency improvement at the Cary, Illinois, facility by switching from solvent-based lamination (SBL) to solventless lamination (SLL). The study showed an impressive 86% improvement using SLL over SBL. This third party verification also allows for an extra credit for a sustainable energy efficiency gain improvement in the Walmart Scorecard.

“The solventless system not only saves energy, but also provides additional benefits by

MORE

Ampac Flexibles Solventless Laminations
Page 2

eliminating solvent based storage, use of flammable materials, and exposure to and removal of volatiles and hazardous waste,” said Ampac Flexibles Sal Pellingra, innovation and marketing director. “This fits Ampac’s commitment toward sustainability and providing a positive influence on the environment it comes into contact with. Further, we are pleased to offer our customers a technology that impacts their sustainable goals with a “greener” alternative that additionally impacts the Wal-Mart scorecard”.

Ideal market applications are products where integrity of product odor and moisture sensitivity are critical and where product must be protected from solvent migration, such as foods, pharmaceuticals, spices; condiments; and cereal products, including dry pet food. The solventless laminations also are ideal for microwaveable and boil-in-bag food products such as ready-to-eat foods, rice products, and sauces. Some of these products fall under Ampac’s PureFlex and FlexiFree product lines.

Ampac Packaging LLC is privately held, and is owned by senior executives together with equity backing by Prudential Capital Group and Falcon Investment Advisors. It is a diversified, international, flexible packaging company with 14 manufacturing centers in North America, Europe and Asia employing approximately 1,300 people with revenues in excess of \$300 million annually. In addition to products offered by Ampac Flexibles, the company is the preeminent supplier of domestic and overseas retail specialty shopping bags and security bag solutions.

For more information, visit Ampac’s website at: www.ampaonline.com.

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