

Alphagary's holistic approach to sustainability

The United Nations Brundtland Commission defines sustainability as “Meeting the needs of the present without compromising the ability of future generations to meet their own needs.” **At Alphagary, reducing carbon footprint is more than an aspiration.** We are taking actions at our facilities such as adopting green energy, upgrading to energy-efficient equipment, and recovering energy generated by internal systems.

We are formulating products with recycled content, as well as bio-based, renewable ingredients and participating in circularity programs. Like you, we are mindful of the impact we have on local communities as well as the environment and future we are leaving for our children. As part of the Orbia community of companies, sustainability is an integral part of our commitment to help advance life around the world.



Reducing the ecological impact at our facilities

RENEWABLE ENERGY and ENERGY EFFICIENCY

- Green energy at Alphagary Melton Mowbray (UK)
- Steam reduction at Alphagary Altamira (MX)
- Energy recovery systems (heat, water)
- Investing in state-of-the-art production equipment

CIRCULARITY PROGRAMS

- Alphagary Chinley (UK): collecting post-industrial rigid PVC off-cuts
- Alphagary Altamira (MX) and Cartagena (CO): collecting post-consumer recycled material to be used in INFINITUDE compounds.

Materials formulated to reduce carbon footprint

Compounds

INFINITUDE – flexible PVC compounds with recycled content for mats, hoses, shoe-soles, 60-70°C wire & cable, and various other products

EVOPRENE® ECO – TPE compounds for general purpose consumer goods products such as garden hoses with recycled and/or biobased content

SUPERKLEEN – PVC compounds with FDA-sanctioned ingredients for healthcare and food contact applications.

MEGOLON® ECO – halogen-free compounds for wire & cable datacom and electrical applications formulated with recycled and/or biobased content.

Stabilizers

VINASTAB® 8000 series: Calcium-zinc stabilizers designed for use in PVC materials with recycled content.

Plasticizers

MEXIFLEX® DOTP plasticizers that incorporate recycled PET (bottles).

Resins

From Orbia Polymer Solutions (Vestolit) FUTURE-FIT resins
PVC resin with reduced carbon footprint

When we formulate products with sustainable ingredients, we are mindful of the various testing requirements that govern product safety and integrity. **We work with our customers to align with their goals**, making sure we provide products that are formulated and manufactured in a way that supports integrity and repeatability while delivering more sustainable solutions.



Sustainable PVC Compounds for General Purpose Applications INFINITUDE



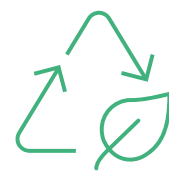
Creating sustainable materials that perform mechanically, process seamlessly, and provide cost effective eco-friendly alternatives to traditional compounds is top-of-mind at Alphagary. Our approach is simple: it needs to make sense for our planet, for our customer, and for the intended application. We embrace this challenge with the same agility that drives our daily innovation -- by listening and then designing materials that meet demanding applications.

INFINITUDE PVC compounds function similarly to compounds formulated with all prime materials in how they process and perform in end applications while having a lower carbon footprint.

- Vinyl-based compounds, formulated for general purpose applications
- Available in natural base or pre-colored
- Formulated to help customers achieve Scope 3 Emissions Reduction Targets
- Designed for extrusion and molding applications

Grade	Typical Use
INFINITUDE ECO-SH-70	Molding, used in footwear shoe sole applications
INFINITUDE ECO-06070	Extrusion, used in general purpose (60-70°C) wire & cable jacket/insulation
INFINITUDE ECO-GK-70-BLK	Molding and Extrusion: used for applications such as gaskets, hoses, and mats

Grades formulated with recycled content have been successfully processed by our customers into footwear soles, irrigation and garden hoses, floor mats, accessories and floor mats for the automotive industry, and 60-70°C wire jacketing and insulation, providing customers with eco-friendly options that reuse waste originally intended for landfill.



Living our sustainability goals led us to partnering with customers who are looking for ways to recycle their discarded product. The VINYL-IN-MOTION venture helps to find avenues where local processing companies separate and clean the material, and then process and ship to Alphagary so we can incorporate into our compounds. We perform quality inspection just like we would for in-coming prime material.

We believe in formulation integrity. When we formulate products with sustainable ingredients, we are mindful of the various testing requirements that govern product safety and integrity.

Our solutions enable our customers to achieve their sustainability targets:

- Using less energy and water
- Investing in renewable energy / efficiency
- Measuring impact via science-based target initiatives
- Achieving carbon neutrality
- Formulating with integrity: marrying performance with sustainability
- Building partnerships across the value chain

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[LINK to Orbia's Impact Report 2023](#)