

SUPERKLEEN

Non-phthalate, bio-based vinyl compounds

Alphagary's vinyl-based compound series SUPERKLEEN is formulated with a non-phthalate, bio-based plasticizer. While Alphagary offers other non-phthalate compounds, the SUPERKLEEN series uses a bio-based plasticizer, aiming to provide a more renewable alternative to fossil fuel plasticized products.

alphagary



Polymer Solutions

- Clear, flexible PVC compounds with bio-based plasticizers
- Formulated with FDA-sanctioned ingredients under Title 21 CFR
- Designed to pass the requirements of USP Class VI Biocompatibility and Cytotoxicity
- Able to withstand gamma and e-beam sterilization (R series)
- Hardness range 43A-110A; processes like traditional flexible vinyl
- Ideal for healthcare, food- contact and other specialty applications

Grade		Hardness	Specific Gravity	Tensile Strength (psi)
SUPERKLEEN 3003-55	Molding applications	53A	1.19	1410
SUPERKLEEN 3003-65	Molding applications	63A	1.21	1832
SUPERKLEEN 3003-85	Molding applications	83A	1.25	2650
SUPERKLEEN 2223C-70	Extrusion applications	68A	1.22	2500
SUPERKLEEN 2223R-80S	Extrusion applications	80A	1.25	2925
SUPERKLEEN 2223GBF-90S	Extrusion applications	90A	1.27	3450

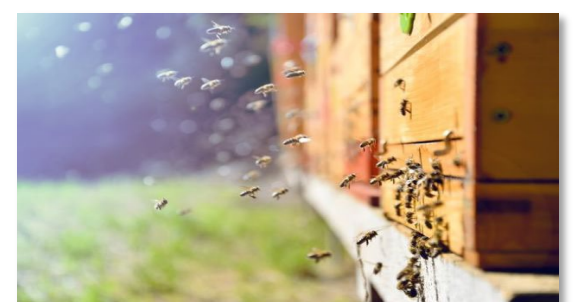
SUPERKLEEN for healthcare products

Formulated with FDA-sanctioned ingredients under Title 21 CFR, these PVC compounds are suitable for healthcare applications such as tubing and skin contact products. In fact, all SUPERKLEEN compounds are designed to pass the requirements of USP Class VI Biocompatibility and Cytotoxicity testing. The SUPERKLEEN "R" series is suitable for typical sterilization methods including E-Beam, gamma, ETO and autoclave.



SUPERKLEEN for specialty products

Formulated for extrusion or molding applications with a range of hardness values from 43A-110A, SUPERKLEEN PVC compounds have the same feel, flexibility and ease of processing as traditional vinyl compounds. In addition to healthcare applications, they are used for food contact products and packaging as well as other specialty products such as animal ear tags and strips to help keep bee colonies healthy.



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 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.

