

Nanocomposite Polymers

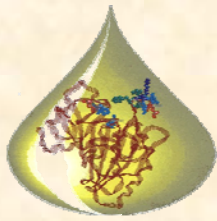
by Aardvark Polymers



*Celebrating the first 25 years.
1983-2008*

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Nanocomposite Polymers by Aardvark Polymers



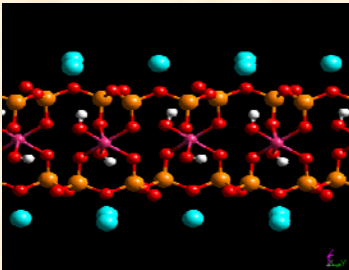
Aardvark Polymers is a pioneer in nano technology for performance polymer applications. Years of research and development, partnered with the industry leaders in nano materials and base polymers, have provided Aardvark with the ability to take the guess work out of your nano inspired initiatives.

Aardvark Polymers can design, formulate, and construct nanocomposites to meet your most demanding applications. Aardvark nanocomposites may be supplied as a finished resin, in masterbatch format, or as an additive package.

NANOCOMPOSITE PERFORMANCE BENEFITS

The addition of nano particles to your selected base materials can offer a wide range of performance benefits previously unavailable such as:

- Enhanced thermal properties
- Increased impact loadings
- Lower permeation ratios
- Higher strength to weight ratios
- Electrostatic dissipative and conductive properties



NANOPARTICLE OPTIONS

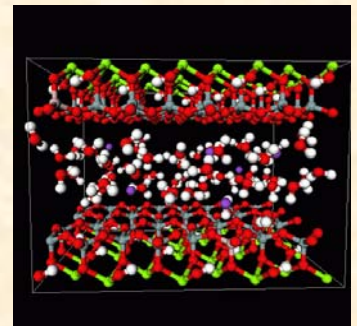
Aardvark works with a wide range of nanomaterials including:

- Nanofibers
- Nanoparticles
- Nano graphene sheets
- Single wall carbon nano tubes
- Multi-walled carbon nano tubes

SURFACTANTS and FUNCTIONALIZED NANOPARTICLES

As most nano particles are inorganic, an organic surfactant is required to enhance compatibility with base materials. Aardvark is uniquely experienced in designing nano additives with the most effective compatibilizers for specific applications.

Aardvark is also unique in their ability to provide functionalized nanomaterials. Nanomaterials may be functionalized with a wide range of chemical compounds that provide extended properties or enhancements such as antimicrobials. Functionalized nanomaterials from Aardvark give you the broadest possible options in nanocomposite polymers.



BASE MATERIAL OPTIONS

Aardvark polymers can formulate nano options in a wide range of materials including:

- | | |
|----------------------------|--------------------|
| Standard plastics | Thermoplastics |
| Engineering resins | Thermoset plastics |
| High performance polymers | Epoxy resins |
| Ultra performance polymers | Urethanes |

Aardvark provides all of the pieces of the nanocomposite puzzle.

PROCESSING and VALIDATION

Aardvark Polymers is equipped to assist you in developing your process parameters for nanocomposites. Adapting these new materials to your operation is paramount to a successful project. Aardvark offers development programs to make nanocomposites a seamless transition into your operations.

When independent validation is required, Aardvark will assist you in obtaining reliable results from certified test labs that offer both ASTM and ISO test criteria.



For more information contact

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