

Kaneka



**INDUSTRIAL MATERIALS
PRODUCT SELECTION GUIDE**

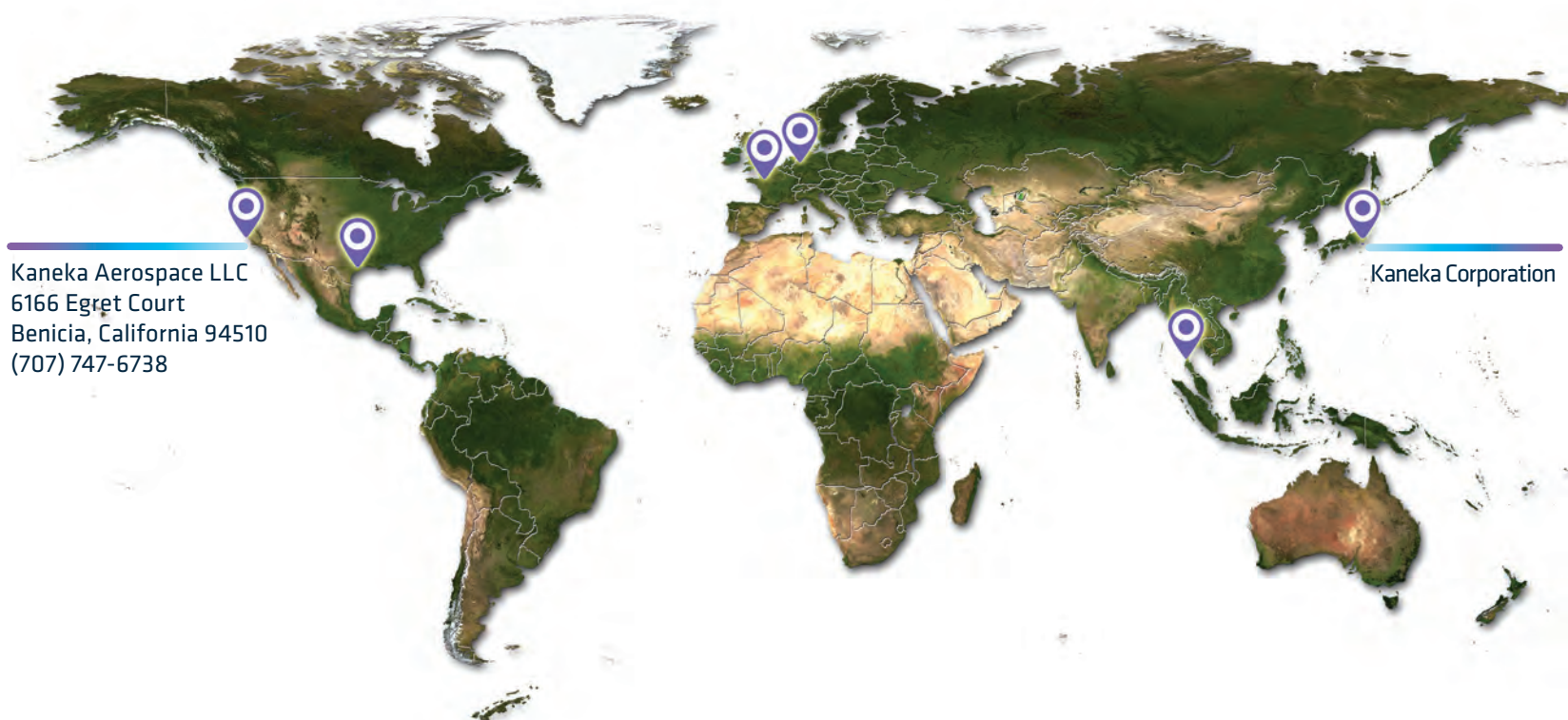


Matrix resin and adhesive systems used for manufacturing fiber reinforced composite parts from compression molding, filament winding, infusion, and wet layup processes. These liquid resin systems provide a unique balance of processing and properties ultimately leading to the highest performing composites. Common applications are found in oil & gas, structural and seismic retrofit, sporting goods, and marine applications. Kaneka can also modify these systems to meet your specific manufacturing and performance challenges.

Product Name	Resin Type	Market	Viscosity @77°F cps	Cure Time & Temp	Dry Tg °F/°C	Process Application	Key Product Characteristics
GR6810	Epoxy	Sporting Goods and Recreation	4,300	30 minutes @ 180°F	170/77	Compression Molding	Toughened laminating resin system for sporting goods and recreation (non-corrosive for DOT) Non BPA-system
GR6820	Epoxy	Industrial	390	Step cure to 3 hours @ 350°F	358/181	Filament Winding	Filament winding system for high temperature and chemical resistant applications
GR6824	Epoxy	Industrial	680	6 hours @ 140°F	163/73	Filament Winding	Filament winding system suitable for potable water applications. Currently in use with NSF 61 standards
GR6826	Epoxy	Industrial	1,000	3 hours @ 250°F	235/113	Filament Winding	Filament winding system designed for manufacturing thick parts. System vitrifies overnight at room temperature to produce cured parts with good dimensional stability and no micro-cracks
GR6840	Epoxy	Industrial	1,200	6 hours @ 180°F	180/82	Wet Laminating	Toughened laminating resin system resistant to delamination. Can be used for thin and thick parts. Optional hardeners available for application needs
GR6842	Epoxy	Industrial	800	6 hours @ 180°F	190/88	Wet Laminating	Laminating resin system having higher cured modulus. Can be used for thin and thick parts. Optional hardeners available for application needs
GA4810	Epoxy	Industrial	39,400	3 hours @ 140°F	170/77	Adhesive	Liquid adhesive with thixotropic properties, allows for excellent bondline control. Excellent for bonding dissimilar materials
GR6860	Epoxy	Industrial	370	4 hours @ 180°F	212/100	General Purpose Infusion	General purpose infusion resin system with room temperature curing capability. Uses include low temperature tooling and marine applications
GR6862	Epoxy	Industrial	278	4 hours @ 200°F	210/99	General Purpose Infusion	Toughened infusion resin system with room temperature curing capability. Used for applications requiring delamination resistance
GR6864	Epoxy	Industrial	245	4 hours @ 200°F	200/93	General Purpose Infusion	Toughened infusion resin system developed for applications requiring multiple impact events
GR6822 (B)	Aromatic Amine Hardener	Industrial	270	3 hours @ 300°F	335/168	Filament Winding	Aromatic amine curing agent developed for use with standard liquid epoxy resins (i.e. liquid Bis-A epoxy/DGEBA). This curing agent enables a long processing time (pot-life) with a high cure rates at elevated temperature.
GR6828 (B)	Amine Hardener	Industrial	13	3 hours @ 250°F	220/104	Filament Winding	Curing agent developed for use with standard liquid epoxy resins (i.e. liquid Bis-A epoxy DGEBA). This curing agent provides long processing time and cured products have good micro-crack resistance

Kaneka Corporation of Osaka, Japan is a \$5 billion producer of chemical products including resins, pharmaceutical intermediaries, food supplements, synthetic fibers, and fine chemicals. Kaneka Corporation was established in 1949 when its main products were caustic soda, soap, cosmetics, and edible oils. Later, the company diversified into polymers, fermentation, biotechnology, electronics, and other fields. Business activities now span a broad range of markets: synthetic resins, resin products, chemicals, foodstuffs, pharmaceuticals, medical devices, electrical raw materials and synthetic fibers. Our 3,300 employees (8,400 including subsidiaries) are meeting our customer needs on all continents; Kaneka has overseas subsidiaries in the United States, Belgium, Germany, Singapore, Malaysia, Australia, China, Vietnam, India, Taiwan and South Korea.

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