

Seashell Technology

Silver Nanowires

Silver nanowires are a promising material for many applications. Silver nanowires combine the high intrinsic conductivity and environmental stability of silver with the benefits of a high aspect ratio material at the nanometer scale. The thin, long wires range in average diameter from 50-200 nm with average lengths up to 100 microns, and can be used in printed inks, adhesives, solar, display, and anti-microbial applications. The high aspect ratio leads to low concentration for percolation preserving the intrinsic properties of the base resin. As a result, silver nanowire based materials are higher in mechanical and adhesion strength.

Silver nanowires are easy to use. They are sold pre-dispersed in a variety of carrier fluids and minimal effort is required for preparing thin films or blending into polymer systems. Seashell Technology's current product line offers suspensions in isopropanol or epoxy. Other carrier fluids can be prepared upon request.

Products	Ave Diameter (nm)	Ave Length (microns)	Concentration (wt %)	Carrier Fluid
AgNW-115	115	30	Up to 5	Isopropanol
AgNW-115-E	115	30	Up to 10	Epoxy
AgNW-60	60	10	Up to 5	Isopropanol