

CarboBlend



CarboBlend are electrically conductive fine powders of thermoplastic or duroplastic polymers. Carbon nanoparticles give the products their high electrical conductivity. The minimum specific electrical resistance that can be achieved is in the region of $100\Omega\cdot\text{cm}$.

CarboBlend are polymer powders enriched by carbon particles. A variety of nanocarbons are used as coating materials. This combination produces excellent electrical properties while maintaining the original mechanical properties of the polymers.

Products of the **CarboBlend** series are notable especially for the following:

- specific electrical and mechanical properties produced by composition of the carbon nano-materials,
- very much improved mechanical properties compared to carbon black filled polymers,
- minimum specific electrical resistance about $100\Omega\cdot\text{cm}$,
- good thermal conductivity,
- dustfree, free-flowing.

CarboBlend products are obtainable based on the following polymers:

- polyethylene, HDPE and LDPE,
- polyamide 11,
- polyamide copolymers,
- polyetheretherketone (PEEK),
- epoxy resin,
- phenol resin,
- melamine resin.

CarboBlend can be further processed as follows:

- antistatic powder coating,
- extrusion,
- rapid prototyping,
- injection molding,
- sintering/molding,
- scattering (textile coating).

Specific electrical resistance

