

Marktek Inc.

Your One-Stop Shop for EMI-shielding, Conductive, Resistive, & Microwave-Absorptive Materials

General Technical Data Sheet for Eeonomer™ Conductive Fillers

Description: doped polypyrrole- or polyaniline-coated carbon blacks

Appearance: black powder

Bulk Conductivity: 0.4-42 S/cm (pressed pellet per ASTM F84 & D257)

Surface Resistivity: 0.5-50 ohm/sq (pressed pellet per ASTM F84 & D257)

Surface Area: 5-700 m²/g (BET, N₂, ASTM D3037)

Apparent Density: 0.4-8 g/cm³

Particle Size: avg. 40 nm (TEM cross-section of polypropylene blend)

Sieve Residue: >90% ≥ 600 mesh (laser diffraction in water)

Moisture Content: 0.5-2%*(ASTM 1509)

Ash Content: 0.01-0.04% (ASTM 1506)

Temperature Limits: up to 360°C (680°F)

Solubility: insoluble

Surface pH: acidic, neutral, basic (per customer specs)

* Recommended pre-drying at 125°C for one hour prior to blending with moisture-sensitive resins.

Applications: Blending into various resins for static dissipative or EMI-shielding plastics, conductive adhesives, and conductive elastomers, either alone or as a co-filler to enhance electrical and thermal properties. Special versions offer superior resistivity control in desired ESD range.

The information provided here is for illustrative purposes only and should not be considered a product specification. All statements and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. As always, it is up to the user of this product to make the final determination as to whether the said product is suitable for the user's intended application.

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