

TECHNICAL DATA SHEET

GP300 Graphene Nanoplatelets

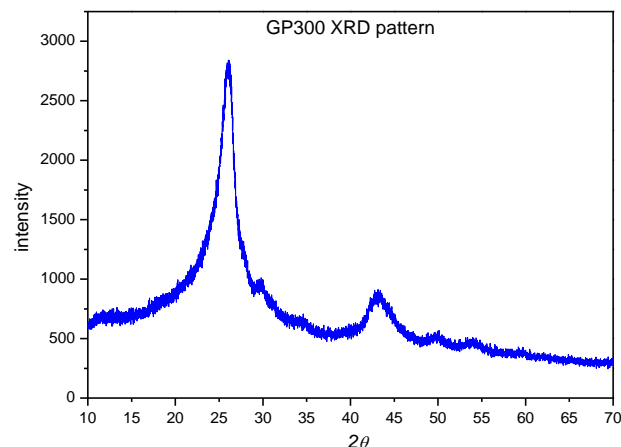
Product description

Graphene-Tech's **GP300 Graphene Nanoplatelets** product consists of high quality graphene powder based on graphene nanoplatelets from 10 to 20 layers. GP300 is manufactured using a patented "top-down" approach exfoliation method. **GP300 Graphene Nanoplatelets** can be used in a wide range of applications such as composites, paintings, conductive inks or transparent coatings.

Technical aspects

parameter	specifications
appearance	black powder
relative density	0.3 g / cm ³
carbon content	97%
average specific area	300 m ² /g
lateral size	500 nm - 1 μm

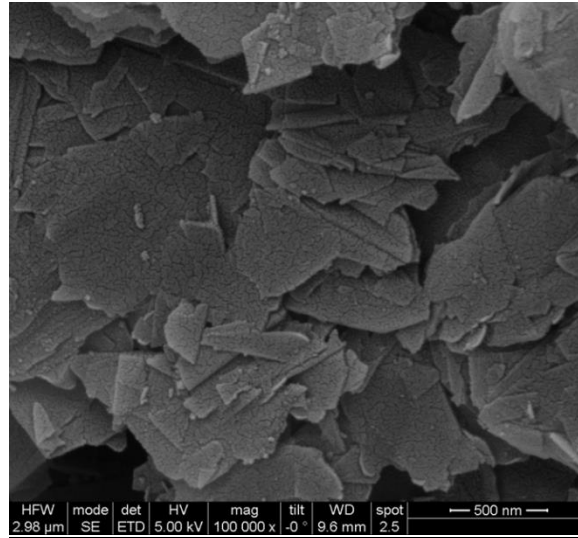
Characterization



XRD patterns of GP300 graphene nanoplatelets (Graphene-Tech / EEA).



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SEM Image of GP300 graphene nanoplatelets (Graphene-Tech / EEA).

Potential applications

Graphene as filler or additive is preferred over other conventional fillers due to their high surface-area aspect ratio, tensile strength, thermal and electrical conductivity, electromagnetic shielding, flexibility, hydrophobicity and transparency.

GP300 Graphene Nanoplatelets is compatible with almost all polymers, suitable as active ingredient for conductive inks or coatings as well as an excellent additive for all kinds of plastics, reinforcing their mechanical properties. **GP300 Graphene Nanoplatelets** can be also used for improving scratch and corrosion resistance in paintings and friction coefficient in lubricants.

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