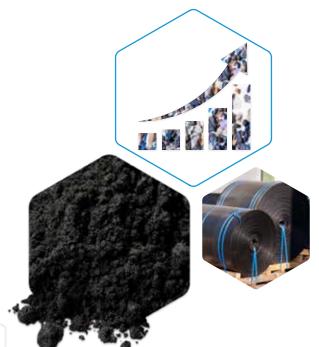


WHAT WE OFFER

World-leading innovative graphene technology for the plastics industry

Industry-leading prices for commercially-viable and sustainable products and applications

Consistent, reliable, high-quality GrapheneBlack™ powder at industrial volumes





A REVOLUTIONARY ADDITIVE replacing standard additives at low loadings improving overall product cost and performance

Improved MECHANICAL, ELECTRICAL, and THERMAL properties

ENHANCED DURABILITY and OXIDATION RESISTANCE

BETTER PROCESSABILITY and easy **DISPERSION** in thermoplastics that include PE, PP, ABS, PA, PC, TPU, PVC and thermoset composites such as epoxy and polyester

UV Resistance



Over 90% retention of mechanical properties after 3000 hours of UV exposure

Prevents UV degradation and retains tensile strength and elongation at break with less than 1 wt.% of GrapheneBlack™

Processability



Facilitates extrusion by reducing undesired shear. Improves melt flow at low concentrations for increased throughput resulting in reduced energy costs

Abrasion Resistance



Over 100% improvement observed in graphene composites with the Taber Abrasion Tester

Provides enhanced abrasion resistance in various polymers at low loading concentrations

Mechanical Properties



15% increase in Young's Modulus and tensile strength with 1 wt.% GrapheneBlack™

Increases stiffness and ultimate tensile strength to meet mechanical requirements

Thermal Dissipation



Enhances thermal management properties in-and-out of plane owing to its high intrinsic thermal conductivity

Barrier Properties



28% improvement in oxygen impermeability with 1 wt.% GrapheneBlack™

A permanent non-depleting physical barrier to oxygen, humidity, hydrocarbons and harsh chemicals. Unlike common additives, GrapheneBlack™ is not consumed over time

EMI Shielding



Provides EMI (Electromagnetic Interference) shielding properties at high frequencies due to its optimal electrical properties

Colorability



Provides an exquisite metallic gray surface finish that is capable of taking on different color hues

Permanent Anti-Static



Electrostatic dissipation and permanent antistatic properties can be achieved with as low as 6 wt.% of GrapheneBlack™

Oxidation Resistance



100% increase in oxidative induction time with 1 wt.% GrapheneBlack™

Improves resistance to oxidative degradation and makes products last longer

Thermal Stability



3°C increase in heat deflection temperature and more than 20°C increase in decomposition temperature with 1 wt.% GrapheneBlack™

Higher thermal stability leads to increased reliability and improved performance in end-products

Recyclability



Reduces costs by increasing the use of recycled resins and decreasing the amount of other additives required. It further improves processability by reducing energy consumption

ABOUT NANOXPLORE TSX.V: GRA | OTCQX: NNXPF

NanoXplore is a graphene company: a manufacturer and supplier of high-volume graphene powder for use in industrial markets. The company provides standard and custom graphene-enhanced plastic and composite products to various customers in transportation, packaging, pipe, electronics, and other industrial sectors. NanoXplore is headquartered in Montreal, Quebec with manufacturing facilities across North America and Europe.

Contact Us



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