TECHNICAL DATA



GraphShield 777

A versatile soluble nanocomposite powder of graphene and acrylic resin for liquid coatings

Features and Benefits

- Dry graphene composite powder is soluble in both solvent (alcohols, glycols, glycol ethers) and alkaline water based systems for easy incorporation into most coatings
- Graphene can improve corrosion resistance, mechanical durability, and electrostatic dissipation properties
- For best results, pre-dissolve (50% solids) in a glycol ether compatible with your solvent or waterbased coating
- More stable and versatile than graphene dispersions
- Formulated exclusively with Asbury Carbons EFG technology
- Easier-to-disperse nanotechnology in a safe, nonnano powder

Typical Properties*

	GraphShield 777
Resin Softening Point \degree C	105
Density @ 25 $^{\circ}$ C (g/cc)	1.27
Mean Particle Size (μm)	14.0 - 18.0
Maximum Particle Size (μm)	74.0
Acid Value	184
Neutralization	Use 0.25%
	ammonium
	hydroxide per
	1% dosage

Composition

Graphene/styrene acrylic resin

Recommended Addition Levels

0.25 - 2.0% (on total formula weight)

Systems and Applications

Water based and solvent based industrial coatings, industrial primers, pipe coatings, coil coatings, marine coatings, transportation coatings, ESD flooring.

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