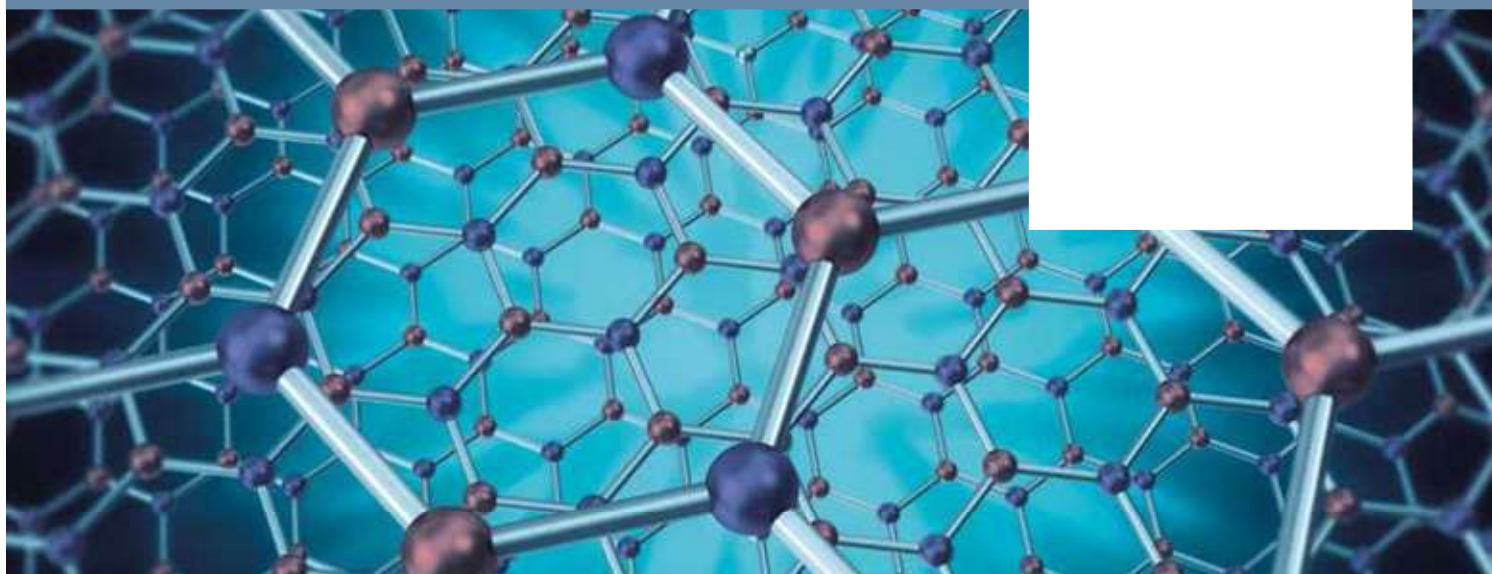


Elinova[®]

2D Boron Nitride Products

Advanced Materials



A new range of high quality 2D platelet products from a reliable supply partner.

Thomas Swan is a world leader in the manufacture and supply of carbon nanomaterials which is underpinned by our position as an independent, international, performance and fine chemicals manufacturer.

We supply a range of quality **Elicarb[®] Graphene** products, first launched in 2014. We have now extended our product range to include 2-dimensional hexagonal boron nitride (**Elinova[®] Boron Nitride**) platelets. These products are manufactured using our proprietary Direct Liquid Exfoliation process.

Advantages of Elinova[®] Boron Nitride:

- Manufactured by direct liquid exfoliation
- Non-aggressive chemistry
- White powder ideal for transparent films (thermal/barrier)
- Honeycomb structure of alternating B and N atoms
- High aspect ratio nanoplatelets

Typical Applications for Elinova[®] Boron Nitride:

Thermal interface materials for electronic and lighting devices.

Printable high dielectric strength coatings.

Mechanical reinforcement in plastics, composites and thermosets.

Thermal conductivity enhancement in dielectric oils and polymers. ¹

Oxygen and moisture barrier additive for plastic films and containers. ²




Thomas Swan
Advanced Materials

**For additional information
please contact:**

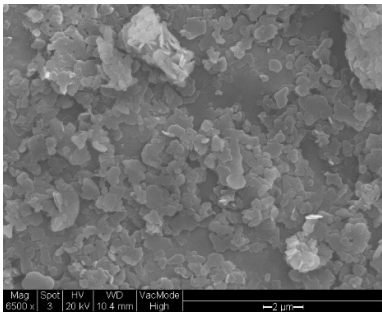
elicarbsales@thomas-swan.co.uk
www.thomas-swan.co.uk

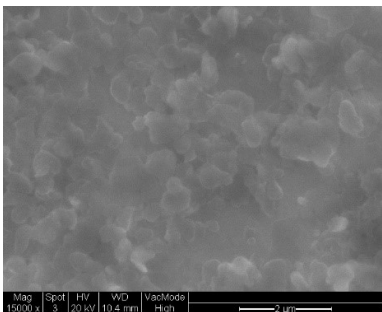
1. Lin et al. Composites Science and Technology, 90, 2014, 123, DOI:10.1016/j.compscitech.2013.10.0189

2. Xie et al. Nanoscale, 2015, 7, 4443-4450, DOI: 10.1039/C4NR07228F



Committed to Responsible Care

DISPERSANT	SEM	TYPICAL PROPERTIES	FORM	PART NUMBER
Ionic		Particle size distribution: ^a Dv10 : 0.3 µm Dv50 : 0.7 µm Dv90 : 2.4 µm Raman confirms lack of B ₂ O ₃ structure	POWDER	PR1153

DISPERSANT	SEM	TYPICAL PROPERTIES	FORM	PART NUMBER
Ionic		Particle size distribution: ^a Dv10 : 0.1 µm Dv50 : 0.3 µm Dv90 : 0.6 µm Raman confirms lack of B ₂ O ₃ structure	POWDER	PR1151

^a measured using laser scattering technique

Contact us:		
elicarsales@thomas-swan.co.uk www.thomas-swan.co.uk	UK Enquiries: 	USA enquiries: 
	Alina Brodowska Thomas Swan & Co. Ltd. Rotary Way, Consett, Durham, DH8 7ND, UK. E: alinabrodowska@thomas-swan.co.uk T: +44 (0) 1207 599368	Christine Sinato Swan Chemical Inc. 136 Ridge Road, 2nd Floor Lyndhurst, New Jersey 07071, USA. E: csinato@thomas-swan.co.uk T: +1 201 729 1400

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