

Graphene-like BN/Gelatin nanobiocomposites for gas barrier applications

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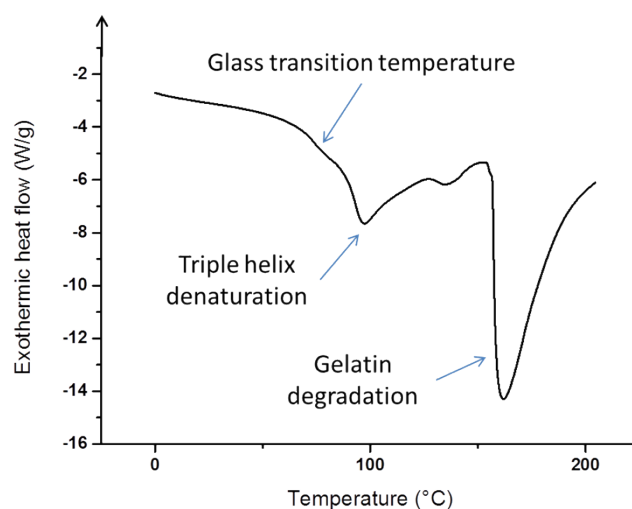


Figure S1. Typical thermogram of gelatin/water system for a temperature range from -25 to 210°C: determination of glass transition temperature and denaturation heat flow.

Table S1. Extensional rheology protocol

Duration of each step	Variable	Profile setting	Variation range
0.05s	Torque (mN m)	Linear ramp	0-1

0.3s	Deflection angle (°)	Linear ramp	0-10
No time limit ; stopped after 34 points	Elongation (%)	Logarithmic ramp	0.001-300
			Frequency fixed: 1Hz

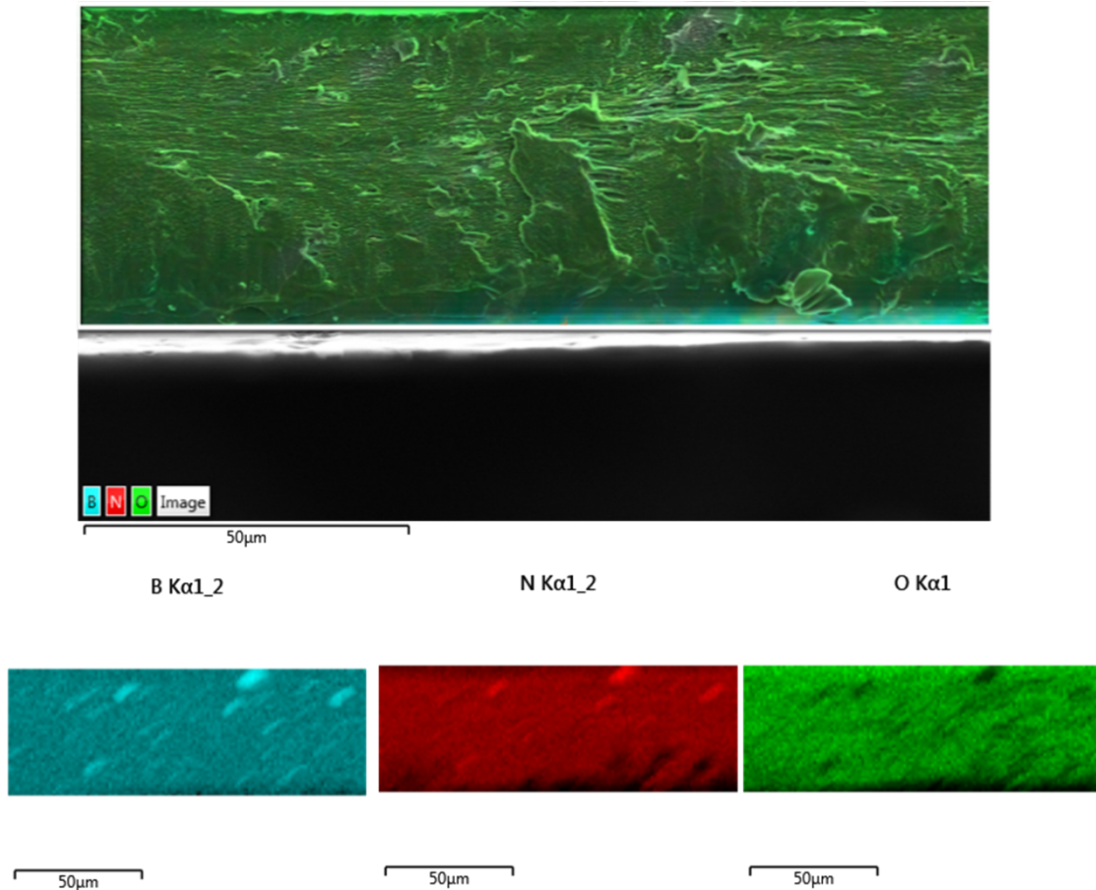


Figure S2. EDX cross section element mapping of GE-BN nanobiocomposites of the area highlighted with white square: (i) Boron element mapping (blue), (ii) nitrogen element mapping (red) and (iii) oxygen element mapping (green)

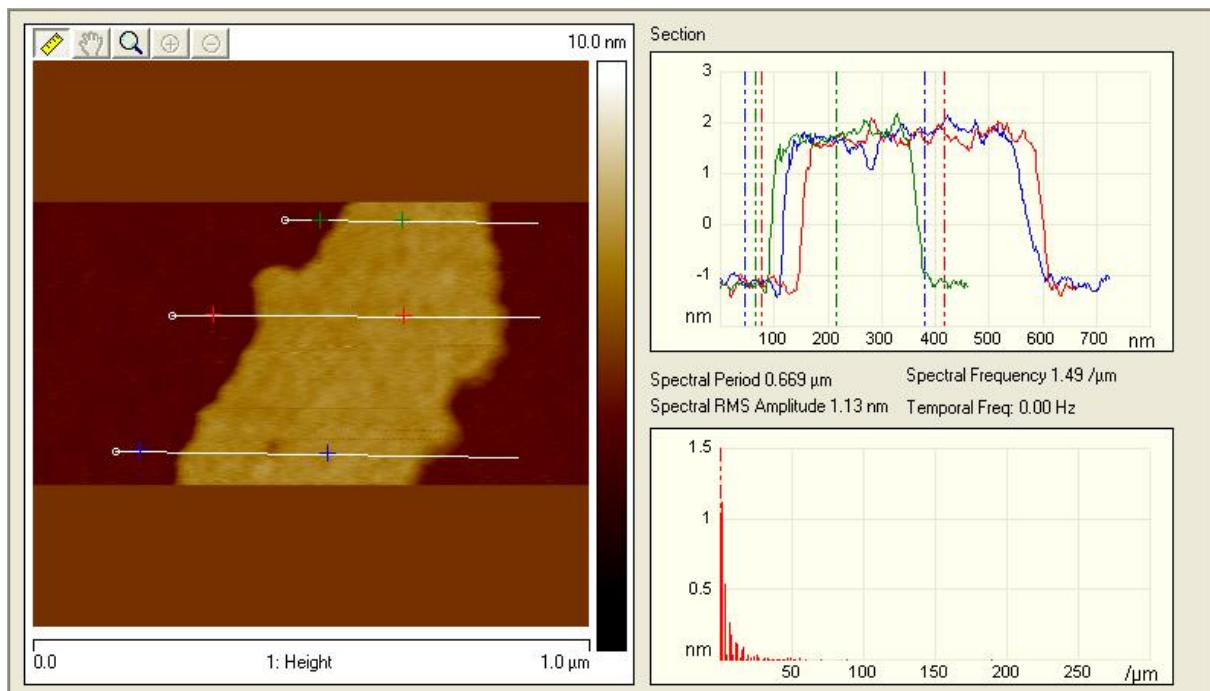


Figure S3. AFM image and height profile of a single layer Graphene-like BN