

Infrared Absorption of Nanometer-scale Thermally Reduced Graphene Oxide - Supplemental

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Anneal Temp (°C)	Oxygen Conc. (%)	% Oxygen Species		
		OH	C-O-C	C=O
As Dep	45	67	20	13
200	40	50	40	10
400	30	20	40	40
600	10	0	60	40
800	5	0	20	80

Table 1. Oxygen Concentrations of graphene oxide as a function of anneal temperature.

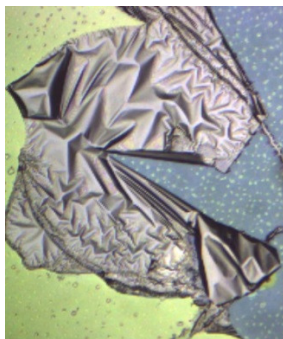


Figure 1. Optical image of a semi-metallic graphene oxide film reduced at 800 °C. Image displays region where film started to delaminate and tear away from the underlying SiO₂.

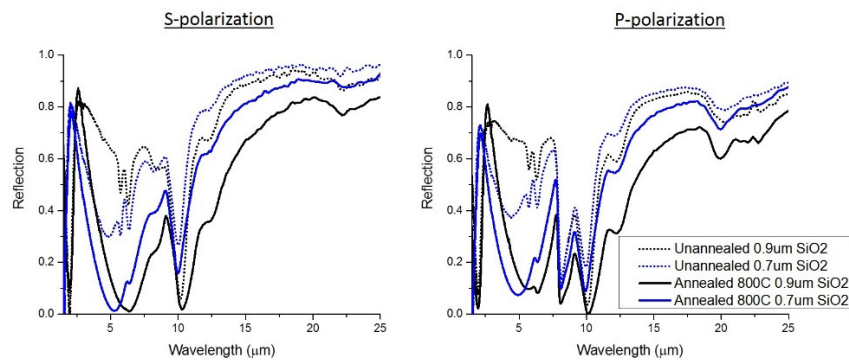


Figure 2. Reflectance spectra of graphene oxide films annealed at 800 °C on a reflectance filter composed of a $\lambda/4$ -thick SiO₂ layer on a Ti/Pd mirror.