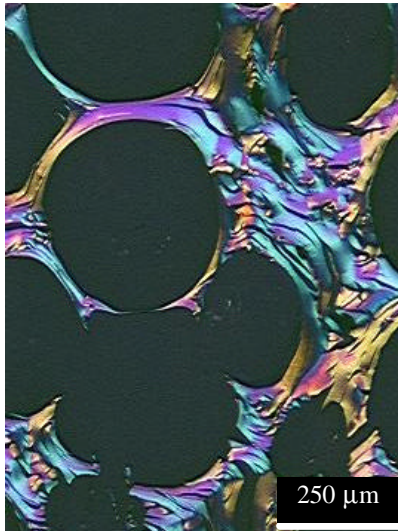
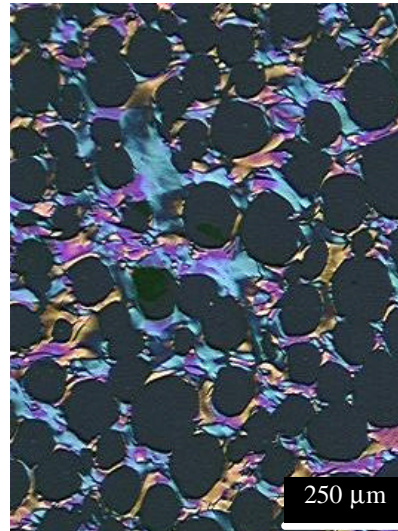


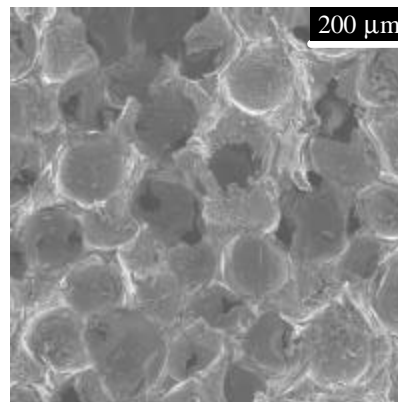
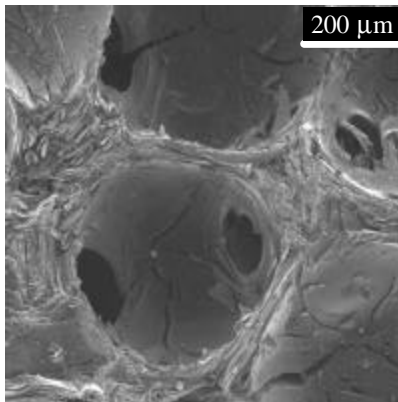
High Thermal Conductivity Graphite Foams



**Foreign Precursor
AR mesophase**



**Domestic Precursor
Conoco Mesophase**



Physical Properties

Density	0.56	g/cm ³
Skeletal Density	2.23	g/cm ³
Porosity	0.75	
Fraction Open Porosity	0.98	
Coefficient of Thermal Expansion	4	ppm/°C
Max Operating Temperature in Air	500	°C

Crystal Properties

Interlayer Spacing (d_{002})	0.3355	nm
Stacking Height ($L_{C,1010}$)	80	nm
Coherence Length ($L_{a,002}$)	20	nm
% Graphitization	98.8	

Mechanical Properties

Tensile Strength	0.69	MPa
Compressive Strength	3.45	MPa
Compressive Modulus	144	MPa

Thermal Properties

Bulk Thermal Diffusivity	4.53	cm ² /s
Bulk Thermal Conductivity	183	W/m·K
Specific Heat Capacity	713	J/Kg·K
Bulk Thermal Conductivity	327	(W/m·K)/(g/cm ³)



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