Supporting Information

Acid dyeing of polyamide-6,6 fabric with carbon black nano particle for camouflage textiles in Vis-NIR Spectrums

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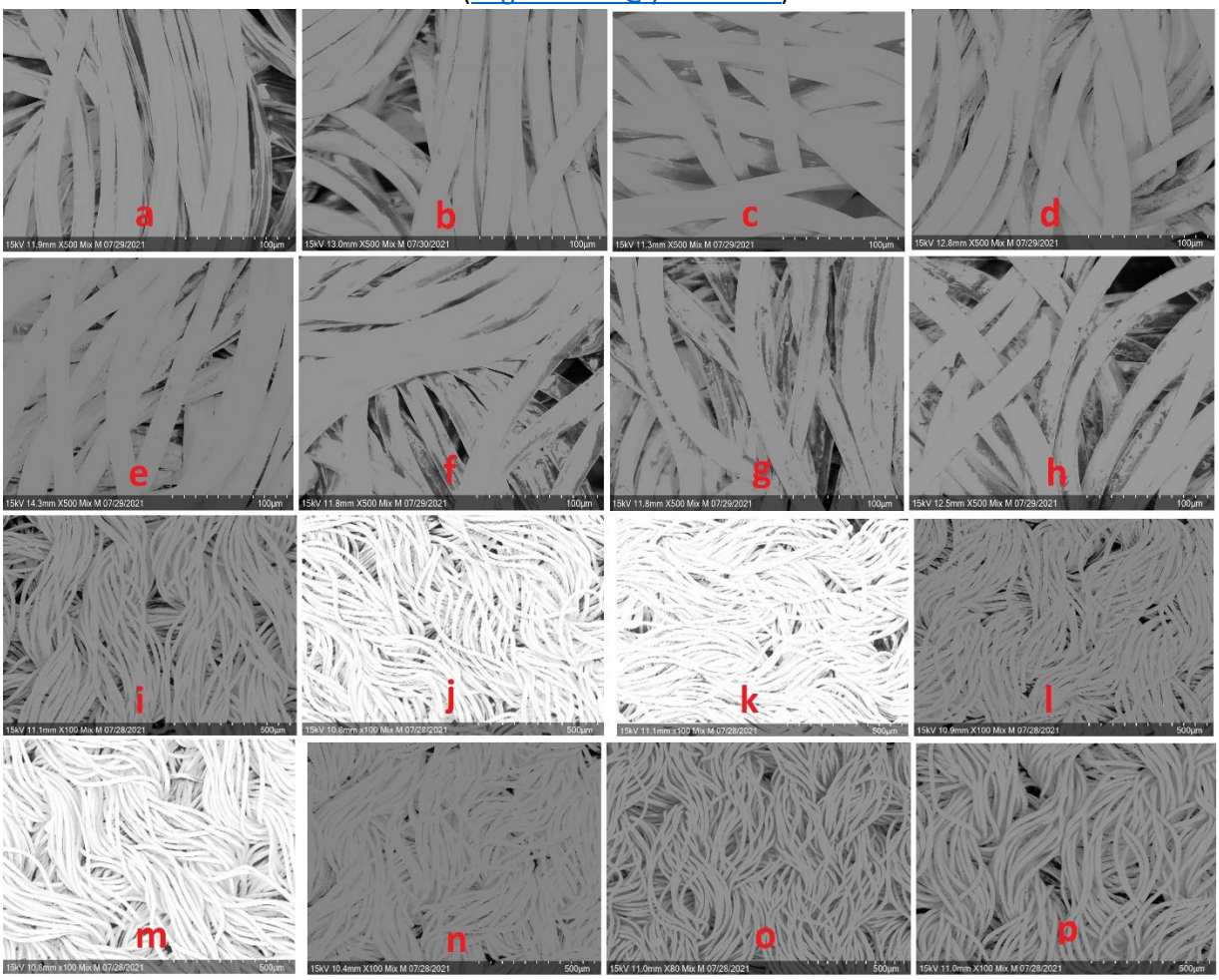

Figure 1, SEM scanned image of CBNP undyed (a) and dyed (i) PA-6,6 fabric; Carbon coated samples with sputter coater (a-h); without carbon coated samples with sputter coater (i-p).

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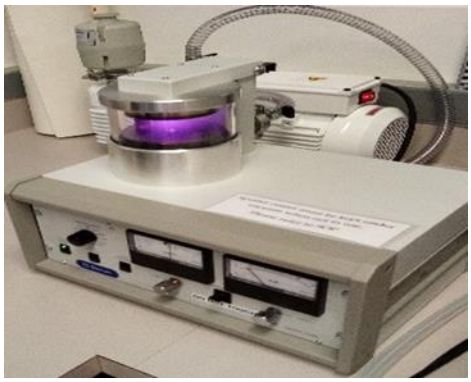

Figure 2, front view of sputter coater used for this experimentation

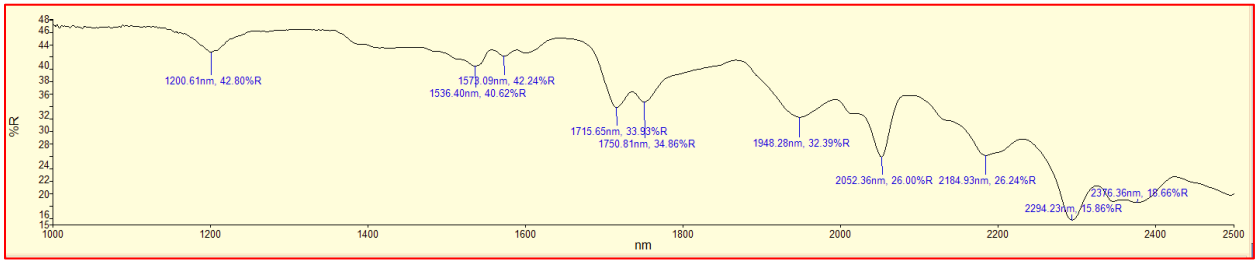

Figure 3, untreated PA-6,6 fabric; original graph of reflection (%) in NIR spectrum from 1000 nm to 2500 nm

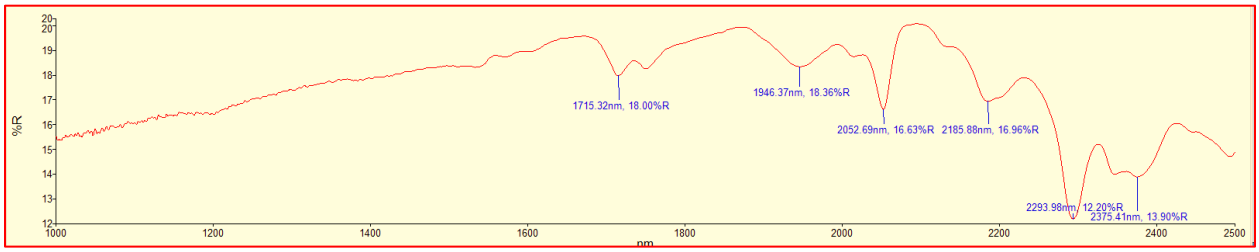

Figure 4, CBNP dyed PA-6,6 fabric with formulation-01; original graph of reflection (%) in NIR spectrum from 1000 nm to 2500 nm

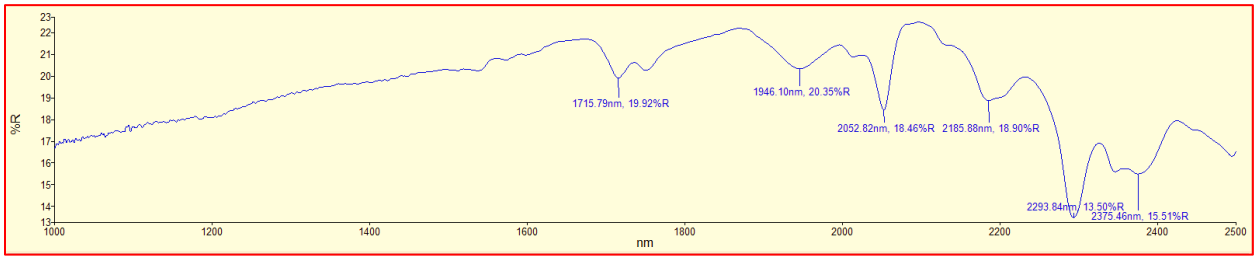

Figure 5, CBNP dyed PA-6,6 fabric with formulation-02; original graph of reflection (%) in NIR spectrum from 1000 nm to 2500 nm

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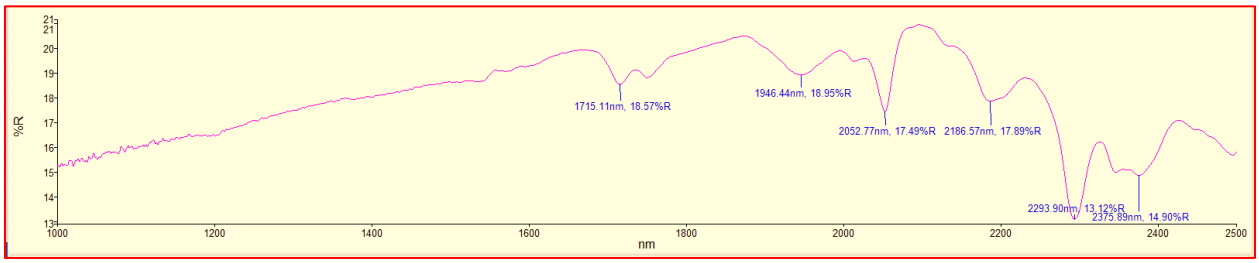

Figure 6, CBNP dyed PA-6,6 fabric with formulation-03; original graph of reflection (%) in NIR spectrum from 1000 nm to 2500 nm

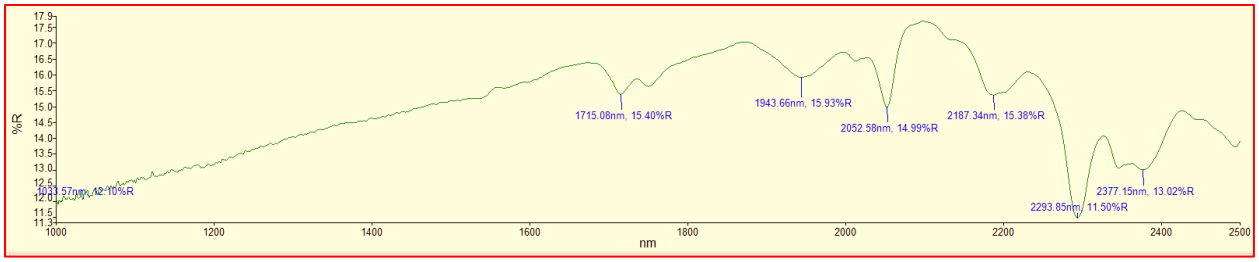

Figure 7, CBNP dyed PA-6,6 fabric with formulation-04; original graph of reflection (%) in NIR spectrum from 1000 nm to 2500 nm

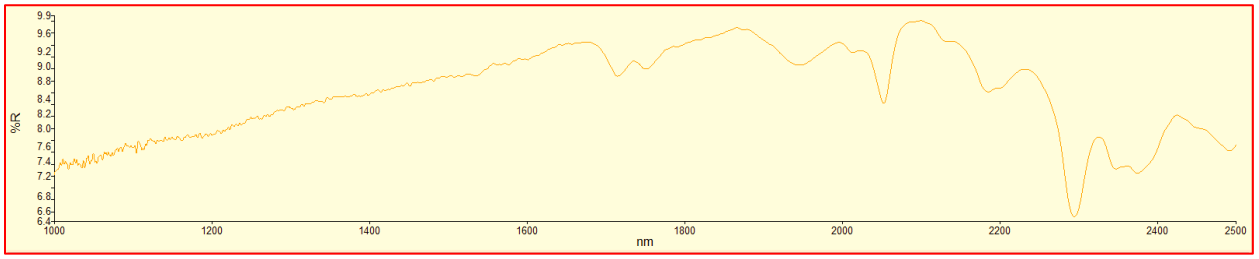

Figure 8, CBNP dyed PA-6,6 fabric with formulation-05; original graph of reflection (%) in NIR spectrum from 1000 nm to 2500 nm

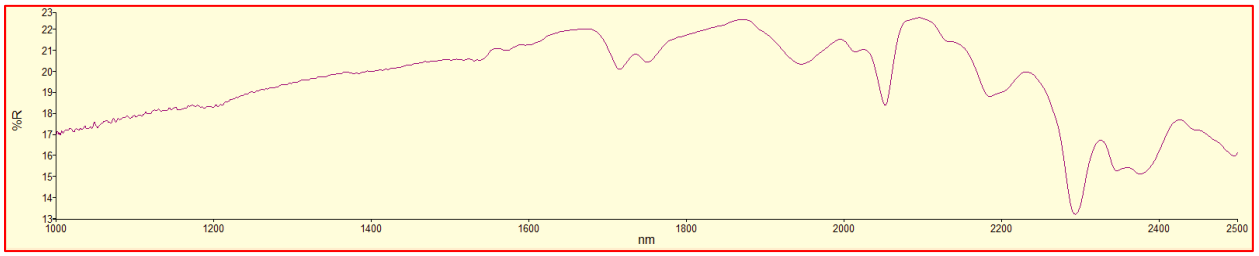

Figure 9, CBNP dyed PA-6,6 fabric with formulation-06; original graph of reflection (%) in NIR spectrum from 1000 nm to 2500 nm

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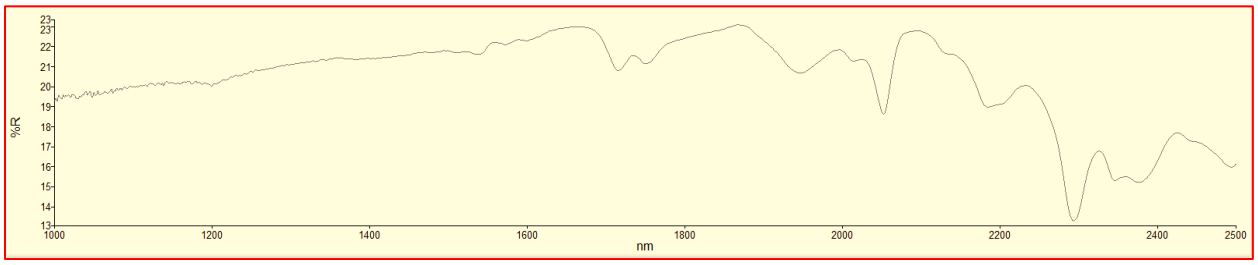

Figure 10, CBNP dyed PA-6,6 fabric with formulation-07; original graph of reflection (%) in NIR spectrum from 1000 nm to 2500 nm

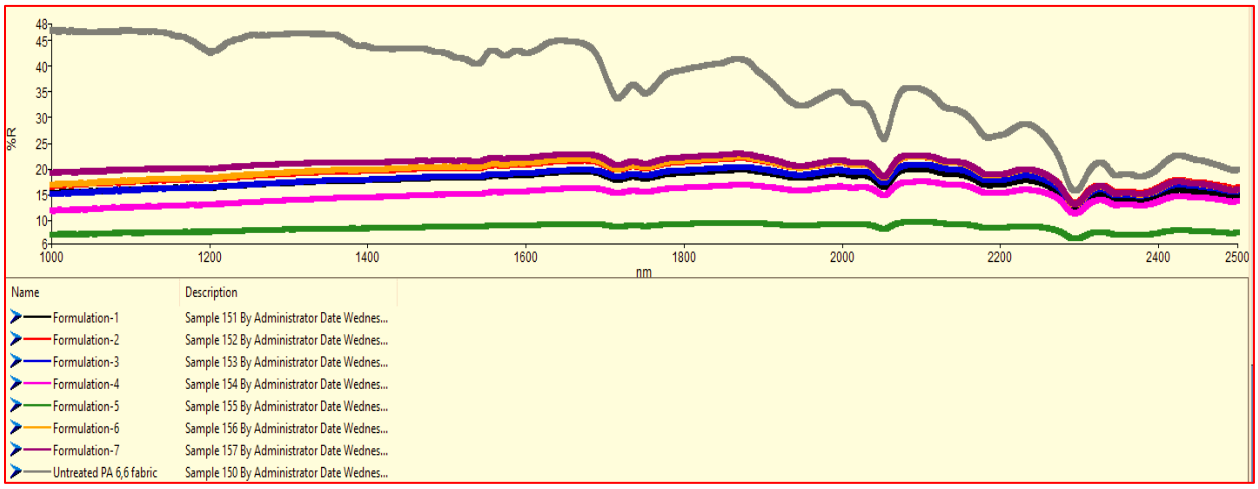

Figure 11, comparison of reflection % of CBNP dyed PA-6,6 fabric with original graph of reflection (%) in NIR spectrum from 1000 nm to 2500 nm; dyed PA-6,6 fabric with formulation-1, P^H:0; Formulation-2, P^H:1 Formulation-3, P^H:2 Formulation-4, P^H:3 Formulation-5, P^H:4 Formulation-6, P^H:5; Formulation-7, P^H:6 (1-7) and untreated PA 6,6 fabric

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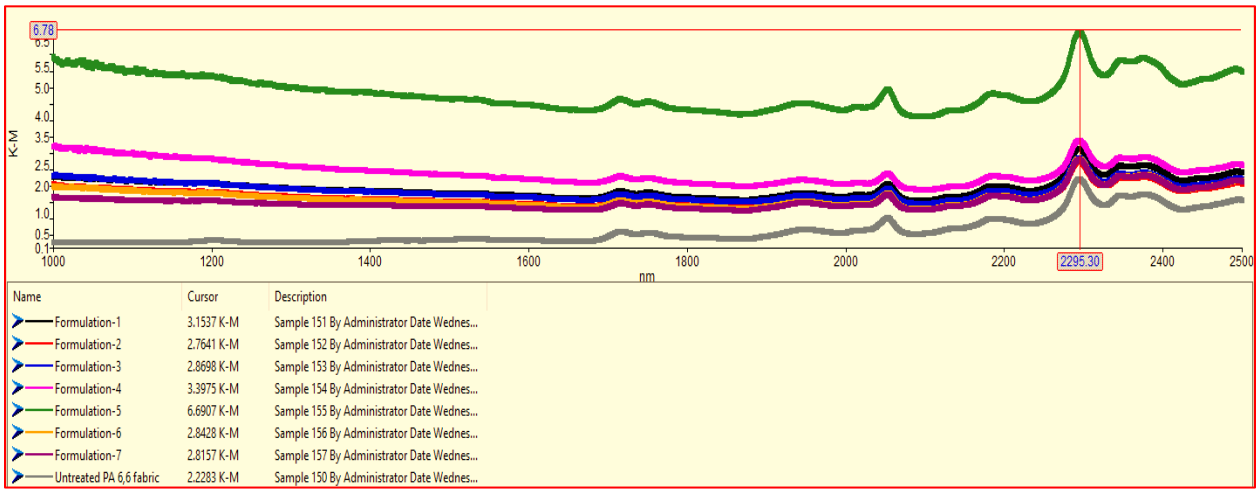

Figure 12, comparison of K-M reflection of CBNP dyed PA-6,6 fabric with original graph of reflection (%) in NIR spectrum from 1000 nm to 2500 nm; dyed PA-6,6 fabric with formulation-1, P^H:0; Formulation-2, P^H:1 Formulation-3, P^H:2 Formulation-4, P^H:3 Formulation-5, P^H:4 Formulation-6, P^H:5; Formulation-7, P^H:6 (1-7) and untreated PA 6,6 fabric

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