

Supplementary Materials

Table S1. TG/DTG data for meta- and para-aramid woven fabrics unmodified and modified with AgNWs, mixture (Ag + S) and layer by layer (Ag/S) method.

Sample	Silanes				PVP				Aramid					
	T _{Onset} [°C]	T _{End} [°C]	T _{Peak} [°C]	Weight loss of silanes [%]	T _{Onset} [°C]	T _{End} [°C]	T _{Peak} [°C]	Weight loss of PVP [%]	T _{Onset} [°C]	T _{End} [°C]	T _{Peak} [°C]	T _{Peak} [°C]	Weight loss of aramid [%]	Weight loss in 800 °C [%]
PVP					398 ± 2	470 ± 1	432 ± 1	98 ± 1						
AgNWs					390 ± 4	455 ± 2	427 ± 1	65 ± 2						
mAr	-	-	-	-	-	-	-	-	417 ± 2	629 ± 3	457 ± 3	512 ± 2	36 ± 4	47 ± 4
mAr/Ag									389 ± 3	625 ± 3	458 ± 1	537 ± 1	41 ± 2	51 ± 1
mAr/Ag+S	285 ± 5	349 ± 2	320 ± 1	2 ± 1	-	-	-	-	402 ± 2	619 ± 2	465 ± 1	546 ± 1	40 ± 1	49 ± 1
mAr/Ag/S	297 ± 2	363 ± 1	339 ± 2	3 ± 1	-	-	-	-	403 ± 2	617 ± 3	467 ± 2	545 ± 1	39 ± 3	49 ± 1
pAr	-	-	-	-	-	-	-	-	554 ± 2	621 ± 1	587 ± 3	-	52 ± 1	60 ± 3
pAr/Ag					377 ± 3	449 ± 2	416 ± 3	6 ± 2	563 ± 2	603 ± 3	586 ± 1	-	34 ± 3	49 ± 2
pAr/Ag+S	276 ± 1	339 ± 1	304 ± 1	1 ± 1	380 ± 1	443 ± 3	409 ± 1	5 ± 1	559 ± 1	605 ± 2	586 ± 1	-	30 ± 1	47 ± 1
pAr/Ag/S	286 ± 3	336 ± 0	310 ± 1	2 ± 1	389 ± 2	452 ± 3	418 ± 3	5 ± 1	560 ± 1	607 ± 0	587 ± 1	-	28 ± 1	47 ± 1

Table S2. DSC data for meta- and para-aramid woven fabrics unmodified and modified with AgNWs, mixture (Ag + S) and layer by layer (Ag/S) method.

Sample	Silanes				PVP				Aramid				
	T _{Onset}	T _{End}	T _{Peak}	ΔH _{deg.}	T _{Onset}	T _{End}	T _{Peak}	ΔH _{deg.}	T _{Onset}	T _{End}	T _{Peak}	T _{Peak}	ΔH _{deg.}
	[°C]	[°C]	[°C]	[J/g]	[°C]	[°C]	[°C]	[J/g]	[°C]	[°C]	[°C]	[°C]	[J/g]
PVP	-	-	-	-	398 ± 1	472 ± 2	433 ± 1	460 ± 3	-	-	-	-	-
AgNWs	-	-	-	-	395 ± 2	456 ± 1	433 ± 2	417 ± 2	-	-	-	-	-
mAr	-	-	-	-	-	-	-	-	411 ± 1	486 ± 3	439 ± 1	461 ± 1	100 ± 1
mAr/Ag	-	-	-	-	-	-	-	-	403 ± 2	488 ± 1	436 ± 1	465 ± 1	131 ± 2
mAr/Ag+S	316 ± 2	360 ± 2	342 ± 3	5 ± 1	-	-	-	-	404 ± 1	486 ± 2	437 ± 1	465 ± 1	120 ± 1
mAr/Ag/S	311 ± 2	355 ± 4	331 ± 2	5 ± 2	-	-	-	-	406 ± 2	484 ± 5	437 ± 1	464 ± 4	120 ± 3
pAr	-	-	-	-	-	-	-	-	525 ± 1	590 ± 1	549 ± 2	581 ± 1	271 ± 5
pAr/Ag	-	-	-	-	386 ± 1	456 ± 1	430 ± 1	18 ± 2	539 ± 1	591 ± 1	559 ± 2	583 ± 1	320 ± 3
pAr/Ag+S	293 ± 4	336 ± 1	321 ± 2	8 ± 2	401 ± 2	450 ± 1	430 ± 1	38 ± 1	531 ± 2	592 ± 1	554 ± 1	580 ± 1	259 ± 3
pAr/Ag/S	314 ± 2	351 ± 2	332 ± 3	8 ± 1	399 ± 3	458 ± 4	432 ± 1	52 ± 1	533 ± 1	589 ± 1	556 ± 1	581 ± 1	252 ± 1