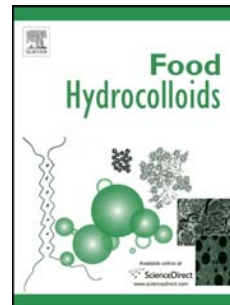


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Physical, structural and antimicrobial properties of poly vinyl alcohol – chitosan biodegradable films

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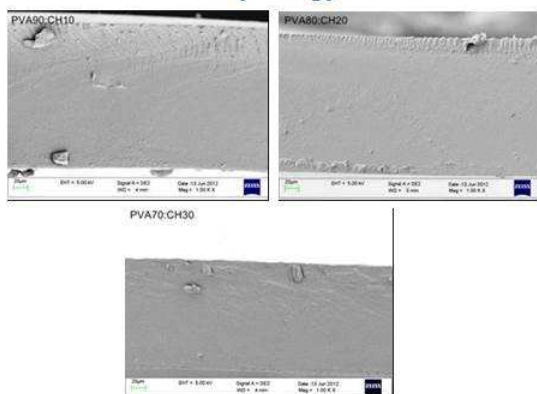
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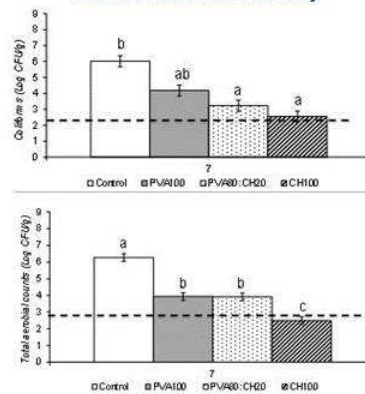
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Poly vinyl alcohol - Chitosan

Morphology



Antibacterial activity



Thermal characteristics of PVA, CH and PVA-CH blend films

Samples	Second Heating Scan				
	T_g (°C)	T_m (°C)	ΔH_m (J/g)	X (%)	T_{max} (°C)
PVA100	69 (4) ^a	221 (2) ^a	55.4 (1.2) ^a	36 (1) ^a	257.0 (1.0) ^a
PVA90:CH10	77.0 (1.0) ^b	213.2 (1.1) ^b	41.3 (0.8) ^b	29 (1) ^b	282 (2) ^b
PVA80:CH20	79 (3) ^b	199.5 (1.1) ^c	24 (2) ^c	19 (2) ^c	314 (2) ^c
PVA70:CH30	80 (2) ^b	199.5 (1.1) ^c	24 (11) ^c	15 (1) ^d	314 (2) ^c
CH100	-	-	-	-	282.0 (1.0) ^b

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