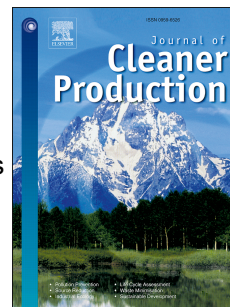


Accepted Manuscript

Clean synthesis of epoxy plasticizer with quaternary ammonium phosphotungstate as catalyst from a byproduct of cashew nut processing

Puyou Jia, Minrui Zheng, Yufeng Ma, Guodong Feng, Haoyu Xia, Lihong Hu, Meng Zhang, Yonghong Zhou



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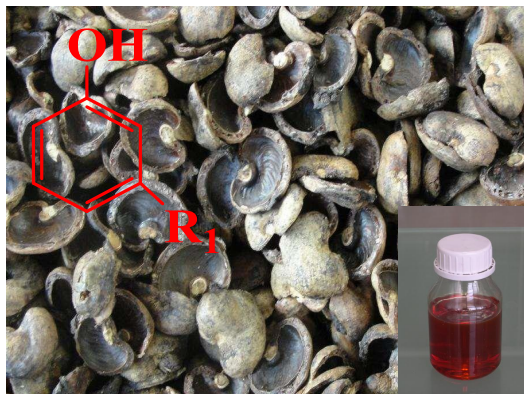
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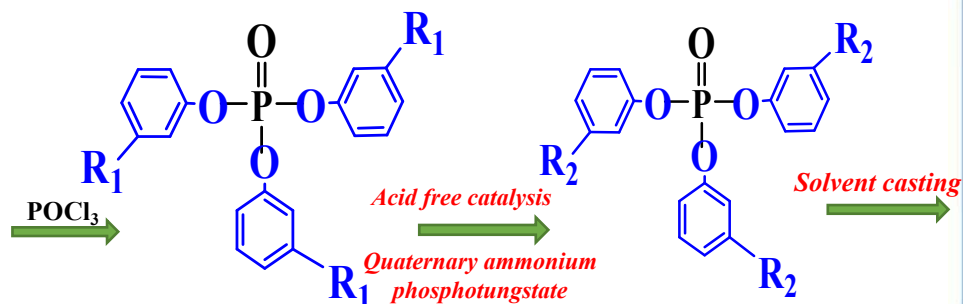
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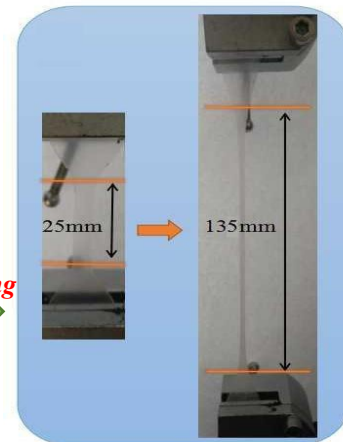


Cardanol

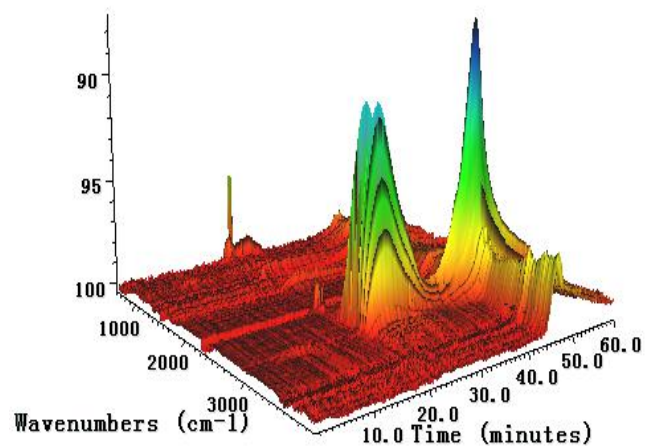


Phosphorus-containing cardanol derivative(PA)

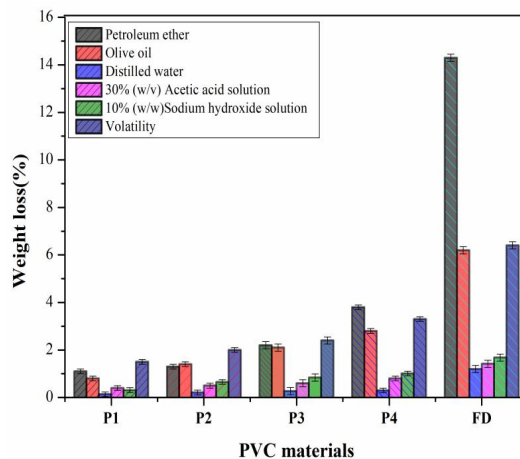
Epoxidized cardanol based plasticizer(ECP)



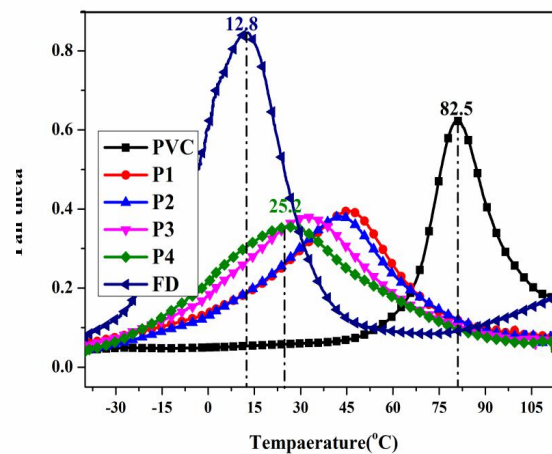
Flexible PVC films



TGA-FTIR



Solvent resistance



DMA

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