

1 Article

2 **Cardanol Groups Grafted on Poly(Vinyl Chloride) -**
 3 **Synthesis, Performance and Plasticization**
 4 **Mechanism**

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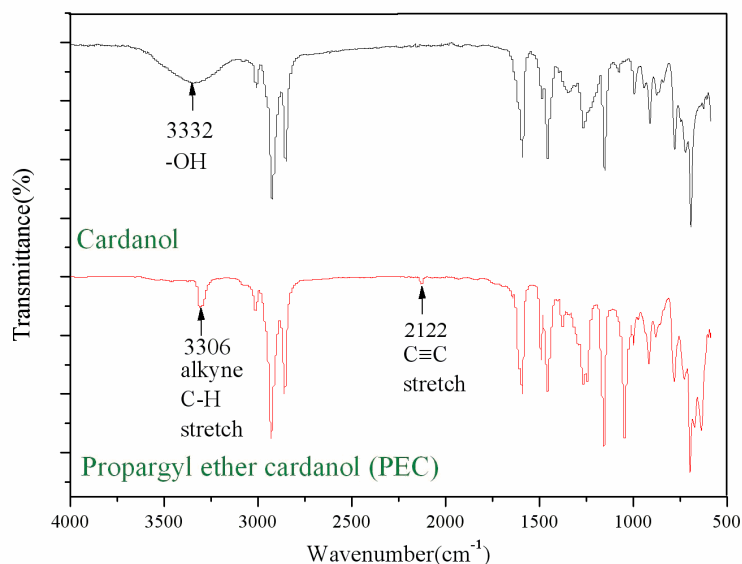
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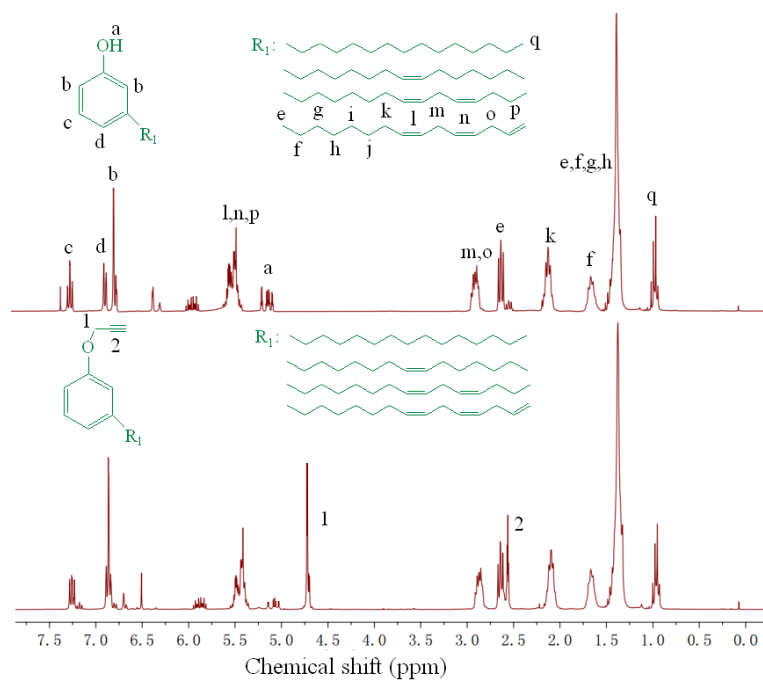
Supporting informations



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Figure.S1 FT-IR spectra of cardanol and PEC



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Figure.S2 ¹H NMR of cardanol and PEC

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Table S1 shows the composition of reactants.

Internally plasticized PVC materials	PVC-N ₃	PEC	Cuprous bromide	2, 2'-dipyridine
PVC-0.25PEC	1g(0.05m mol)	0.25g (0.73mmol)	0.21g (1.46mmol)	0.46g (2.92mmol)
PVC-0.50PEC	1g(0.05m mol)	0.50g (1.45mmol)	0.42(2.93mmol) cuprous bromide	0.92g(5.90mmol)
PVC-0.75PEC	1g(0.05m mol)	0.75g (2.19mmol)PEC	0.63g (4.38mmol) cuprous bromide	1.38g(8.85mmol)

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