

1 *Supplementary Materials*

2 **Thermally healing, reshaping and ecofriendly**  
 3 **recycling of epoxy resin crosslinked with Schiff-base**  
 4 **of vanillin and hexane-1,6-diamine**

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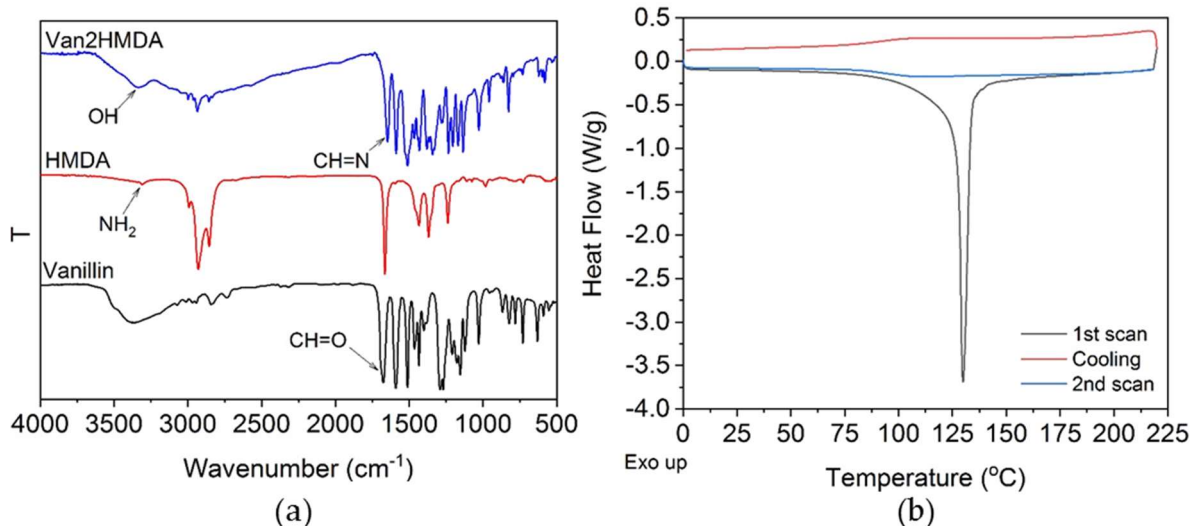
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15 **Figure S1.** (a) FT-IR spectra of Vanillin, HMDA, and the product (Van2HMDA) by Schiff-based  
 16 formation and (b) DSC thermograms of Van2HMDA.

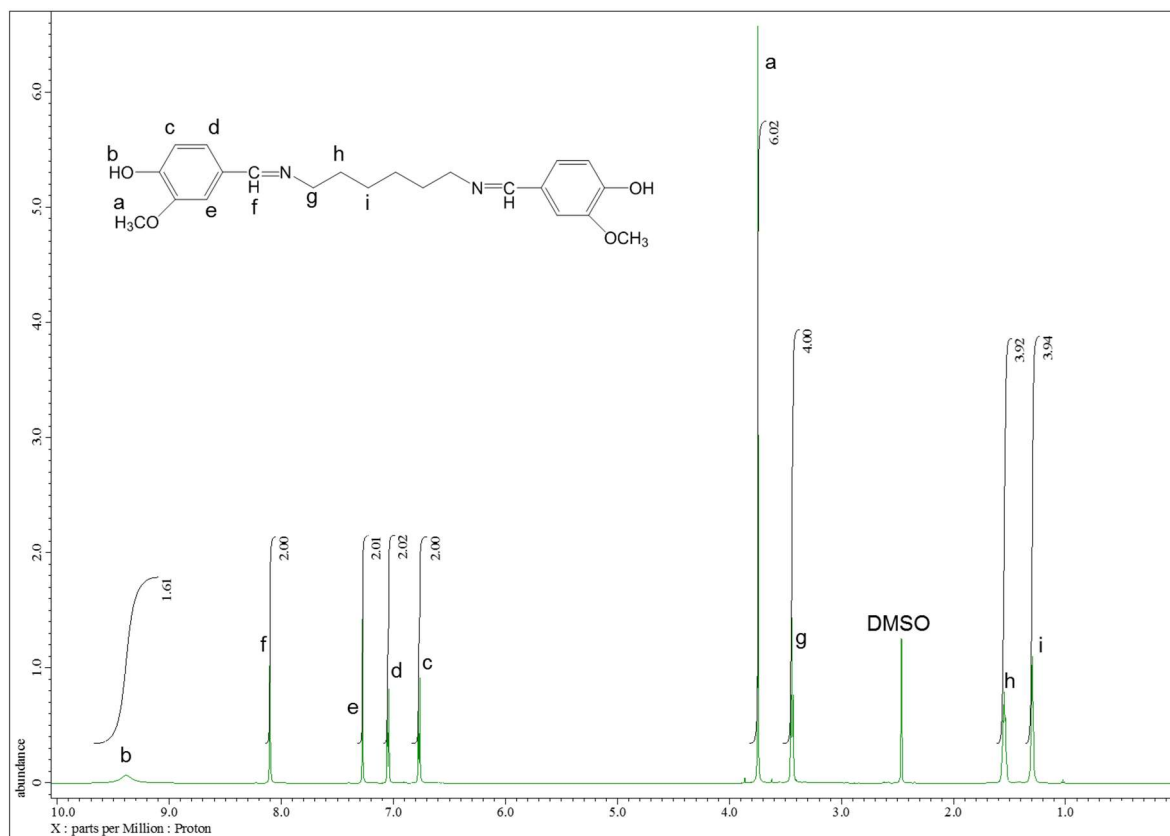
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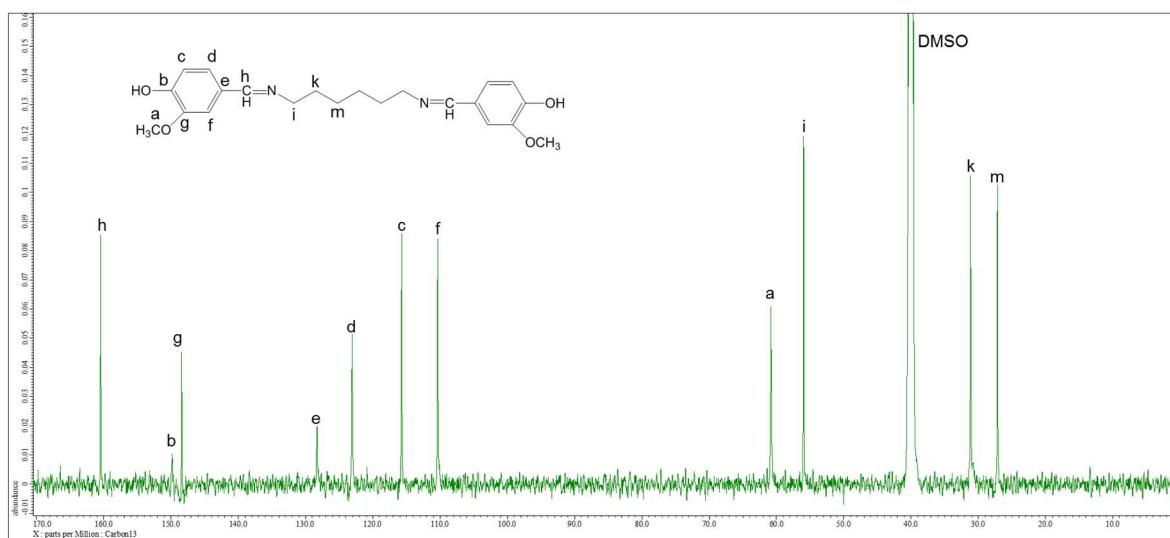
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(a)

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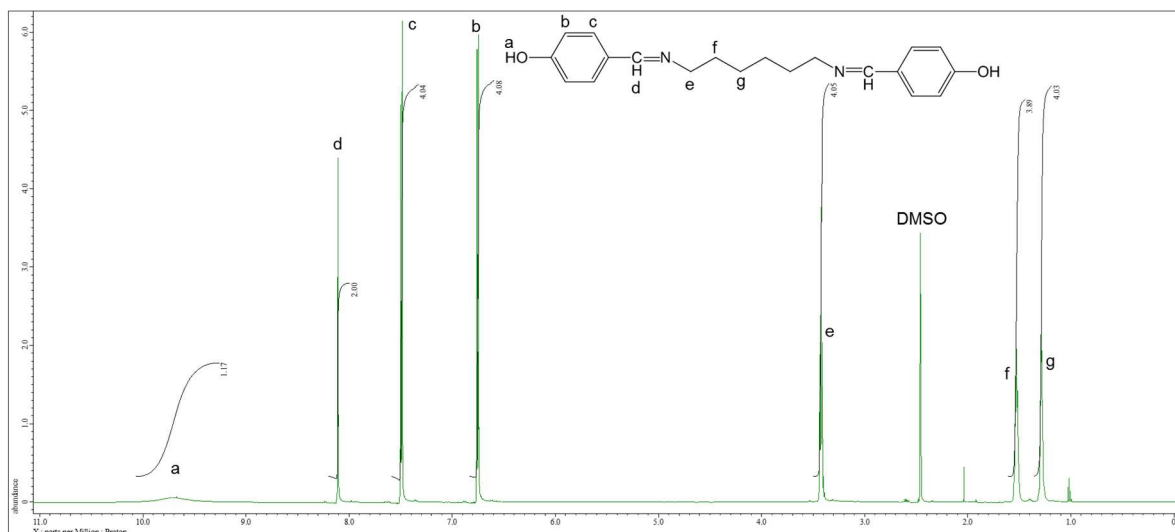


(b)

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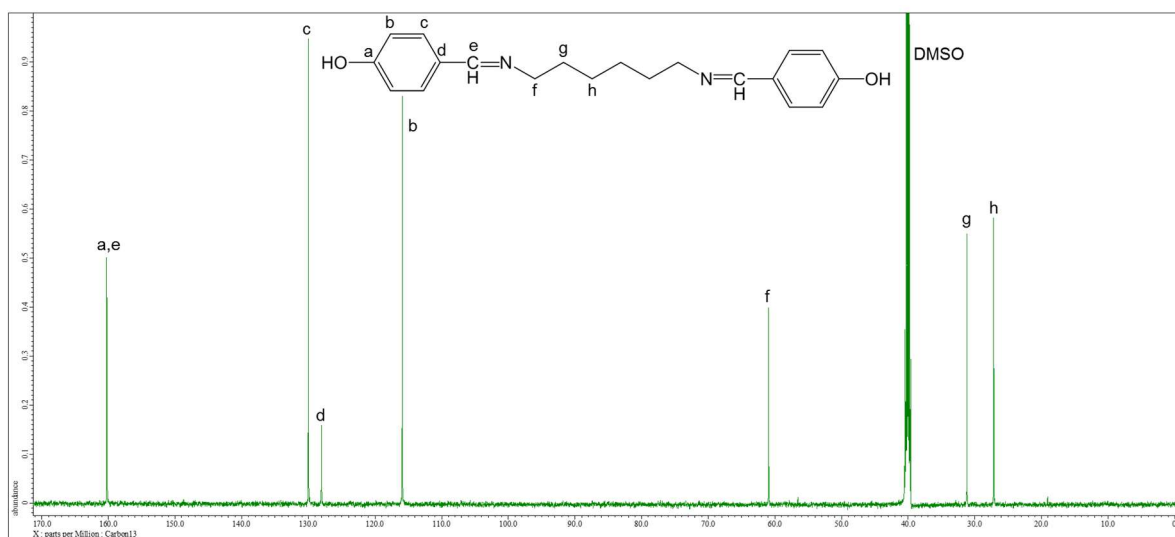
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**Figure S2.** (a)  $^1\text{H-NMR}$  and (b)  $^{13}\text{C-NMR}$  spectra of Van2HMDA based on Van and HMDA.



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(a)

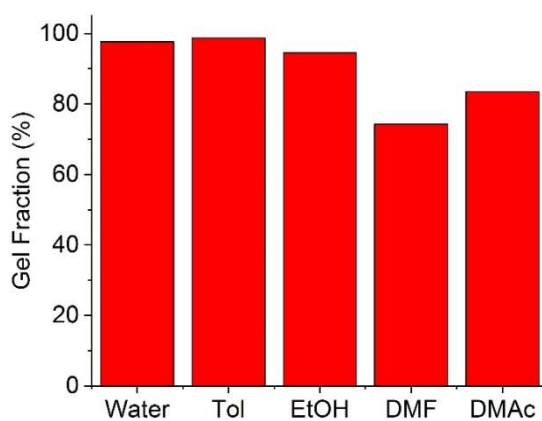


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(b)

27 **Figure S3.** (a)  $^1\text{H}$ -NMR and (b)  $^{13}\text{C}$ -NMR spectra of model compound HBA2HMDA based on HBA  
28 and HMDA.

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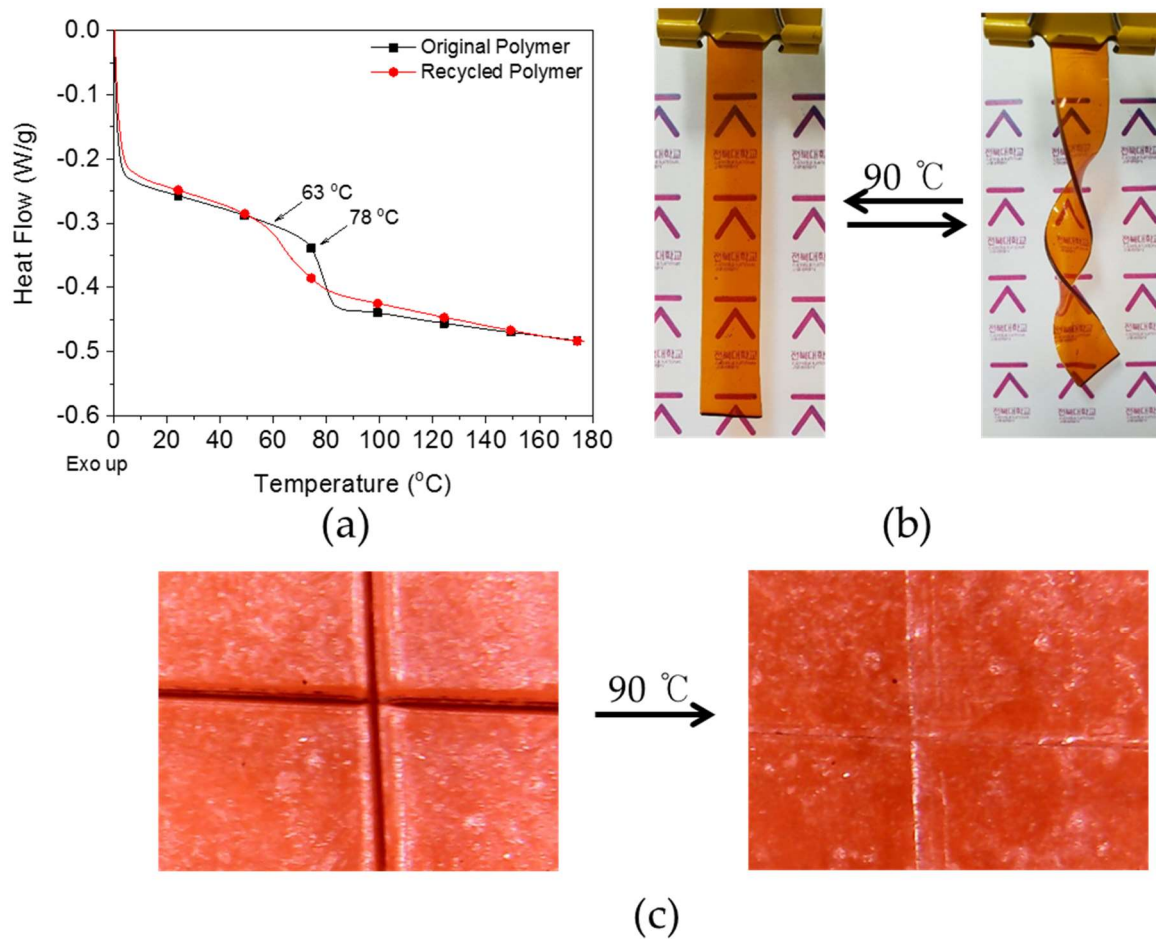


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**Figure S4.** Gel fraction of the epoxy resin cured with Van2HMDA in different solvents.

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**Figure S5.** (a) DSC thermalgrams of original polymer and recycled polymer, (b) reshaping ability and (c) thermal healing ability of the recycled polymer.



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