Supporting information

Hyperbranched polymer from tung oil modifying epoxy resin with simultaneous improvement in toughness and strength

Laihui Xiao\textsuperscript{a}, Zengshe Liu\textsuperscript{c\textdagger}, Nan Li\textsuperscript{d}, Shuai Li\textsuperscript{a}, Pan Fu\textsuperscript{a}, Yigang Wang\textsuperscript{a}, Jinrui Huang\textsuperscript{a\textb}, Jie Chen\textsuperscript{a} and Xiaoan Nie\textsuperscript{a\textasteriskcentered}

\textsuperscript{a}Key Laboratory of Biomass Energy and Material, Jiangsu Province; Co-Innovation Center of Efficient Processing and Utilization of Forest Resources, Jiangsu Province; Key Laboratory of Chemical Engineering of Forest Products, National Forestry and Grassland Administration; National Engineering Laboratory for Biomass Chemical Utilization, Institute of Chemical Industry of Forest Products, Chinese Academy of Forestry, 16 Suojin Wucun, Nanjing 210042, Jiangsu Province, P.R. China

\textsuperscript{b}Research Institute of Forestry New Technology, Chinese Academy of Forestry, Xiangshan Road, Beijing 100091, P.R. China

\textsuperscript{c}USDA, ARS, National Center for Agricultural Utilization Research, Bio-Oils Research Unit, 1815 N University St, Peoria, IL, 61604, United States

\textsuperscript{d}Institute of Advanced Synthesis, School of Chemistry and Molecular Engineering, Nanjing Tech University, Nanjing 211816, Jiangsu Province, P.R. China

\textsuperscript{*}Correspondence: niexiaoan@126.com; Tel.: +86-025-8548-2528

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Fig. S1. GPC spectrum of TOHBP.
Fig. S2. FTIR spectra from the curing samples of EP and EP-TOHBP10.
Fig. S3. Representative load-position curves of cured epoxy systems.
Fig. S4. Representative curing samples: (a) EP, (b) EP-TOHBP3, (c) EP-TOHBP5, and (d) EP-TOHBP10.
Table S1. Mechanical properties of cured epoxy samples

<table>
<thead>
<tr>
<th>Sample</th>
<th>Impact strength (KJ·m²)</th>
<th>Tensile strength (MPa)</th>
<th>Young’s modulus (MPa)</th>
<th>Elongation at break (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP</td>
<td>20.07 ± 3.17</td>
<td>67.97 ± 0.32</td>
<td>2610 ± 31</td>
<td>6.78 ± 0.52</td>
</tr>
<tr>
<td>EP-TOHBP3</td>
<td>30.86 ± 6.33</td>
<td>69.94 ± 0.39</td>
<td>2829 ± 28</td>
<td>8.04 ± 0.49</td>
</tr>
<tr>
<td>EP-TOHBP5</td>
<td>62.79 ± 5.86</td>
<td>70.87 ± 0.88</td>
<td>2891 ± 31</td>
<td>6.41 ± 1.30</td>
</tr>
<tr>
<td>EP-TOHBP10</td>
<td>58.89 ± 1.44</td>
<td>73.01 ± 0.85</td>
<td>3116 ± 19</td>
<td>6.96 ± 0.62</td>
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</tbody>
</table>