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Title: Assessment of Starch-based Wood Adhesive Quality by Confocal Raman Microscopic Detection of Reaction Homogeneity

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1 **Highlights:**

2 Confocal Raman microscopy was used to detect the reaction homogeneity of vinyl acetate
3 grafted on maize starch granules.

4 The quality of high solid content starch based wood adhesive was related to the reaction
5 homogeneity.

6 The analysis of grafted single starch granules by CRM is a useful method to acquire
7 information about reaction homogeneity.

8

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