

## Effect of Natural Binder on Pang-Rum Hardness

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**Abstract :** The aim of this study is to improve Pang-Rum (PR) hardness by adding natural binders. PR is one of Thai tradition aroma products. In the past, it was used for aesthetic propose on face and body with good odor. Nowadays, PR is not popular and going to be disappeared. Five natural materials, i.e. agar, rice flour, glutinous flour, corn starch, and tapioca starch were selected to use as binders. Binders were dissolved with boiled water into concentration 5% and 10% w/w except agar that was prepared 0.5% and 1% w/w. PR with and without binder were formulated. Physical properties, i.e. weight, shape, color, and hardness were evaluated. PR with 10% of corn starch solution had suitable hardness (14.2 $\pm$ 0.9 kg) and the best appearance. In the future, it would be planned to study about odor and physical stability for decorated product development.

**Keywords :** aromatic water, hardness, natural binder, pang-rum

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