













wax products application in batik process with real scale on the field and knowing the quality of dye resist and dyeing that results from the batik process using batik wax products by experts in the field. In Fig. 10-13 appears the batik fabric prototypes was produced using batik wax W9-W12. The observation result of batik fabric prototypes are manufactured using batik wax products in this category demonstrates high quality on motives line and dyeing as a result of the use of batik wax W9 and W10. While in Fig. 11 and Fig. 12 appears typical cracks of the batik wax W11 dan W12.

Although the analysis result from laboratory scale showed a high resistance of batik wax W12 against crack and alkaline solution, the real scale deployment results showed a high level of difficulty in batik process that involves this type of wax, because of its lower penetrating power at fabric fiber. On Table 4 shows the quality of each batik fabric prototype resulting from the production process using batik wax W1-W12.

TABLE IV  
THE QUALITY OF BATIK FABRIC PROTOTYPE

Batik Wax Type	Batik Fabric Parameters		The Quality of Batik Fabric Prototype
	The Resistance against Cracking	The Resistance against Alkaline Chemicals	
W1	Resistant	Resistant	Good
W2	Resistant	Resistant	Good
W3	Resistant	Resistant	Good
W4	Resistant	Resistant	Good
W5	Resistant	Resistant	Good
W6	Resistant	Resistant	Good
W7	Resistant	Resistant	Good
W8	Resistant	Resistant	Good
W9	Resistant	Resistant	Good
W10	Resistant	Resistant	Good
W11	Not Resistant	Resistant	Fair
W12	Not Resistant	Not Resistant	Poor

#### IV. CONCLUSIONS

Based on the quality test results performed on batik wax W1-W12, can be concluded some things: The addition of bees wax to a blend of wax waste and gum rosin has generated batik wax W1-W4 with a good latched power and resistance to cracks and also alkaline chemicals. The addition of bees wax to a blend of wax waste and paraffin has generated batik wax W5-W8 with a good latched power and resistance to cracks and also alkaline chemicals. Manufacture of batik wax products from a blend of bees wax, gum rosin and lard has produced batik wax W9-W10 with a good latched power and resistance to cracks and also alkaline chemicals. While the typical pattern of cracks observed from batik process results using batik wax W11 and W12.

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