

ABSTRAK

Jalan merupakan prasarana transportasi yang sangat penting dalam meningkatkan efisiensi berbagai kegiatan sosial dan perekonomian Masyarakat, dan pembangunan kehidupan dalam memajukan kehidupan bermasyarakat. Abu cangkang merupakan hasil sisa pembakaran dari cangkang kerang setelah proses pembakaran atau hirolisis. Selain itu, abu cangkang kerang juga dapat digunakan dalam berbagai aplikasi ramah lingkungan, seperti penjernih air atau bahan baku untuk produk komposit. Hasil pemeriksaan dan analisa pengaruh penggunaan abu cangkang kerang sebagai *filler* adalah VMA 0% diperoleh nilai 17,11, kadar 5% sebesar 18,04, kadar 10% sebesar 16,48, kadar 20% sebesar 18,65, kadar 30% sebesar 18,10. VIM 0% diperoleh nilai sebesar 10,91, kadar 5% sebesar 10,23, kadar 10% sebesar 10,53, kadar 20% sebesar 10,38, kadar 30% sebesar 11,53. VFA 0% diperoleh nilai sebesar 26,17, kadar 5% sebesar 27,75, kadar 10% sebesar 32,19, kadar 20% sebesar 69,28, kadar 30% sebesar 38,31. *Stability* 0% diperoleh nilai sebesar 1632, kadar 5% sebesar 2712, kadar 10% sebesar 2646, kadar 20% sebesar 3105, kadar 30% sebesar 1935. Flow 0% diperoleh nilai sebesar 3,35, kadar 5% sebesar 4,40, kadar 10% sebesar 2,45, kadar 20% sebesar 2,50, kadar 30% sebesar 2,90. Nilai MQ 0% diperoleh nilai sebesar 545,10, kadar 5% sebesar 668,87, kadar 10% sebesar 1075, kadar 20% sebesar 1243, kadar 30% sebesar 667,57.

Kata Kunci: Jalan, Abu, Cangkang Kerang.

ABSTRACT

Roads are transportation infrastructure that is very important in increasing the efficiency of various social and economic activities in society, and in developing life in advancing social life. Shell ash is the residual result of burning shellfish after the combustion or hydrolysis process. Apart from that, shell ash can also be used in various environmentally friendly applications, such as water purification or raw materials for composite products. The results of the examination and analysis of the effect of using shell ash as a filler were that VMA 0% obtained a value of 17.11, 5% content was 18.04, 10% content was 16.48, 20% content was 18.65, 30% content was 18.10. VIM 0% obtained a value of 10.91, 5% level of 10.23, 10% level of 10.53, 20% level of 10.38, 30% level of 11.53. VFA 0% obtained a value of 26.17, 5% content of 27.75, 10% content of 32.19, 20% content of 69.28, 30% content of 38.31. Stability 0% obtained a value of 1632, 5% content of 2712, 10% content of 2646, 20% content of 3105, 30% is 1935. The 0% flow value is 3.35, the 5% level is 4.40, the 10% level is 2.45, the 20% level is 2.50, the 30% level is 2.90. The 0% MQ value obtained is 545.10, the 5% level is 668.87, the 10% level is 1075, the 20% level is 1243, the 30% level is 667.57.

Keywords: Road, Ash, Clam Shell.