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The amount of lignin added to the bitumen and the corresponding results of MV, penetration, softening point and VBN were recorded in Table 6. According to the results in Table 6, it is seen that by adding lignin into the bitumen at different percentages, the effect of lignin on the quality properties of asphalt mixture increased and the average of MV, VBN, penetration and softening point decreased in the following order: lignin 9 3 > 3 lignin 9 3 > 6 lignin 9 3 > 9 lignin 9 3 > 12 lignin 9 3. This shows that adding lignin to bitumen in the first step has a more significant effect on the improvement of quality properties of asphalt mixtures than the other percentage amounts. In this research, 6% of lignin was used as the amount of lignin in the mixture of bitumen and lignin. In the present study, the effect of lignin with different percentages on the softening point of bitumen has been evaluated and the results are recorded in Table 6. According to the results in Table 6, it is seen that the softening point of the bitumen-lignin mixtures decreased with increasing the lignin percentage. At the same time, by adding lignin to bitumen, the softening point decreases in more than 6%. Addition of the lignin with the required amounts of bitumen is a proper choice for enhancing the performance of asphalt mixtures since increasing the softening point of bitumen makes it more resistant to temperature changes. In this research, the lignin with the amount of 6% in the mixture of bitumen and lignin was used. The effect of lignin with different percentages on the penetration of bitumen has been studied and the results are presented in Table 6. According to the results in Table 6, it is seen that increasing the percentage of lignin has a negative effect on bitumen with an increased in the penetration values. However, the penetration increased by increasing the amount of bitumen from 9% to 12 bitumen weight percent. Addition of the lignin to the required amount of bitumen is a good option for enhancing the quality of asphalt mixtures. It is important to note that in the case of asphalt mixture tests, adding the bitumen is a good option, and addition of lignin is a suitable option for improving the bitumen quality and forming a more stable asphalt mixture. In this research, adding the bitumen with the amount of 6% in the mixture of bitumen and lignin was selected.

## Softening Point Test For Bitumen Pdf Download

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