

## Effects on properties of hardness and surface roughness properties of aging test applied to heat treated MDF boards

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**Abstract:** The purpose of this study will be to investigate the effects of aging test on the hardness and surface roughness of the MDF boards subjected to heat treatment for a certain temperature and time. MDF boards were heat treated at 150, 170 and 190 °C for 15, 30 and 45 minutes, respectively. Then, the boards were subjected to a 4-week aging test. The aging test was carried out in a UV aging cabinet depending on temperature and relative humidity according to ASTM26 / 95 standards. It has been determined that the hardness values and surface roughness values of the test specimens decrease at a certain rate with aging. The hardness and surface roughness of the test specimens subjected to heat treatment of 190 °C and 45 minutes were the most adversely affected specimens.

**Keywords:** Aging, MDF, Hardness, Surface roughness