이태리포플러 로타리單板의 熱板乾燥와 天然乾燥에 關한 硏究

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Study on Press-drying and Air-drying of Italian Poplar Rotary Veneer

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Summary

Italian poplar (*Populus euramericana*) rotary veneers were press-dried and air-dried to study drying curves, thickness shrinkage and width shrinkage of them under several drying conditions such as drying temperatures and veneer thicknesses.

The results of the study are summarized as follows;

1. In press-drying, drying times from green condition to about final moisture content of 10 percent with veneer thickness of 0.6mm by platen temperatures required about 10 minutes at platen temperature of 100°C, 3 minutes at 110°C, 1 minute at 120°C and 130°C, respectively.
2. In press-drying, drying times from green condition to about final moisture content of 10 percent by veneer thicknesses required 2 minutes at veneer thickness of 0.6mm, 4 minutes at 1.2mm, 6 minutes at 1.8mm and 9 minutes at 3.6mm, respectively.
3. In air-drying, drying times from green condition to air-dried moisture content by veneer thicknesses required 15 hours at veneer thickness of 0.6mm, 18 hours at 1.2mm and 23 hours at 2.4mm, respectively.
4. Thickness shrinkage of press-drying was remarkably greater than that of air-drying, but width shrinkage of press-drying was rather smaller.
5. Difference of thickness shrinkage among platen temperatures was insignificant, and width shrinkage at platen temperature of 130°C was the least. ■