

## 研究報告

# 疏伐木粒片對一次成型粒片板家具構件性質之影響<sup>1</sup>

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**【摘要】**本研究之目的乃以杉木人工林疏伐木為原料，改善一次成型粒片板製成之家具構件的性質。使用杉木粒片、工廠廢木料及稻殼，混合粉末狀以或液狀尿素膠製成家具構件，如椅座板及圓桌面，膠合劑以佈膠機均勻灑佈於粒片上，再以一次成型的方式製造椅座板和圓桌面板，成品之性質符合 CNS 2215 13 型粒片板及日本 JIS 1052 椅座衝擊試驗之標準，且板材之強度性質隨著杉木粒片含量的增加而增加。

**【關鍵字】**杉木人工林疏伐木、稻殼、一次成型粒片板、家具構件

## Research paper

# Property Improvement in Furniture Components of One-Step Molded Particleboard by China-fir Plantation Thinnings<sup>1</sup>

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**【Abstract】** The purpose of this study was to find the optimum manufacturing conditions for one-step molded particleboard, improved by China-fir particles for furniture components such as chair seats and tabletops. Components were molded from China-fir particles, industrial wood waste and rice hull bonded effectively with powdered or liquid UF. Adhesive was machine sprayed on particles, chair seats and round tabletops were then formed and pressed in one-step molding. The strength of the board conformed to CNS 2215 type 13 standard and JIS 1052 seat impact test. The strength increased with increasing proportion of China-fir particles.

**【Key word】** Plantation China-fir thinnings, Rice hull, One-step molded particleboard, Furniture components.

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