



**KAHRAMANMARAS SUTCU IMAM UNIVERSITY
DEPARTMENT OF FOREST INDUSTRY ENGINEERING
ANALYSIS REPORT**

Objective: Determination of flexural strength, flexural modulus and bonding strength properties of plywood samples provided by Petek Plywood Industry Trade Joint Stock Company.

Analiz Tarihi: 13th of Nov, 2021

Analiz için Kullanılan Cihaz: Zwick Universal Testing Machine

Results of Analysis:

Petek Plywood Industry Trade Joint Stock Company has provided 11 plies film faced plywood samples to KSU Forest Industry Engineering Department to evaluate the flexural strength, flexural modulus and bonding strength properties. 10 samples were tested for each property. Provided samples were investigated by us and their flexural properties and bonding strength were determined based on EN 310 and EN 314-1, 2 standards. These standards described by EN 636. All tested samples have provided values required by the standards.

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ANALYSIS

Flexural Strength, Flexural Modulus and Bonding Strength

Tests were conducted based on the relative standards and results were presented in a table. Flexural strength, flexural modulus and bonding strength test were accomplished in our laboratories. All Plywood samples were provided by Petek Plywood Industry Trade Joint Stock Company. Results are summarized in Table 1. Measured values met the criteria suggested by EN 310 ve EN 314-1/314-2 standards.

Table 1. Test results of Plywood Samples provided by Petek Plywood Industry Trade Joint Stock Company

Standard No	Test Information		Results
EN 310	11 Plies Plywood	Flexural Strength (N/mm ²)	53,79
	Sample Thickness: 18mm Sample Width: 50mm Support Span: 360mm	Flexural Modulus (N/mm ²)	6716,74
Standard No	Test Information		Sonuç
EN 314-1/314-2	11 Plies Plywood	Bonding Strength (N/mm ²)	2,32
	6th glue line from the top was tested		