

## LABORATORY TEST REPORT

Subject: IDENTIFICATION OF EURO SELEKTA CLAD BINDER BY FOURIER TRANSFORM INFRARED ANALYSIS

UQMP C03625.01

Project No.

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Sample *Table 1*

Description:

Sample #	UQMP #
1 Euro Seleкта Clad	UQMP # 16949

Method Ref: ASTM E1252 Standard Practice for General Techniques for Obtaining Infrared Spectra for Qualitative Analysis.  
Internal UQ Materials Performance methods.

### 1 SAMPLE PREPARATION

A sample of Euro Seleкта Clad was supplied for binder identification by Fourier Transform Infrared Analysis with Attenuated Reflectance (FTIR-ATR)

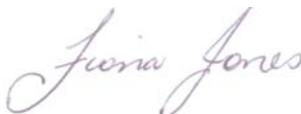
The sample as described above in Table 1 was prepared for examination by removing an internal section of the material free from surface coatings. This core material was treated with a solvent to extract the binder. A film of the extracted material was cast and examined directly by FTIR-ATR and the spectrum obtained is displayed in Appendix A

### 2 RESULTS

FTIR examination found the binder to be consistent with a phenolic adhesive, a thermosetting resin. No polyethylene was observed.

Standard flammability tests can be performed at UQ's Fire Safety Facility if necessary.

Signed for and on behalf of UQ Materials Performance



Fiona Jones



2.1 FTIR ANALYSIS OF EURO SELEKTA CLAD

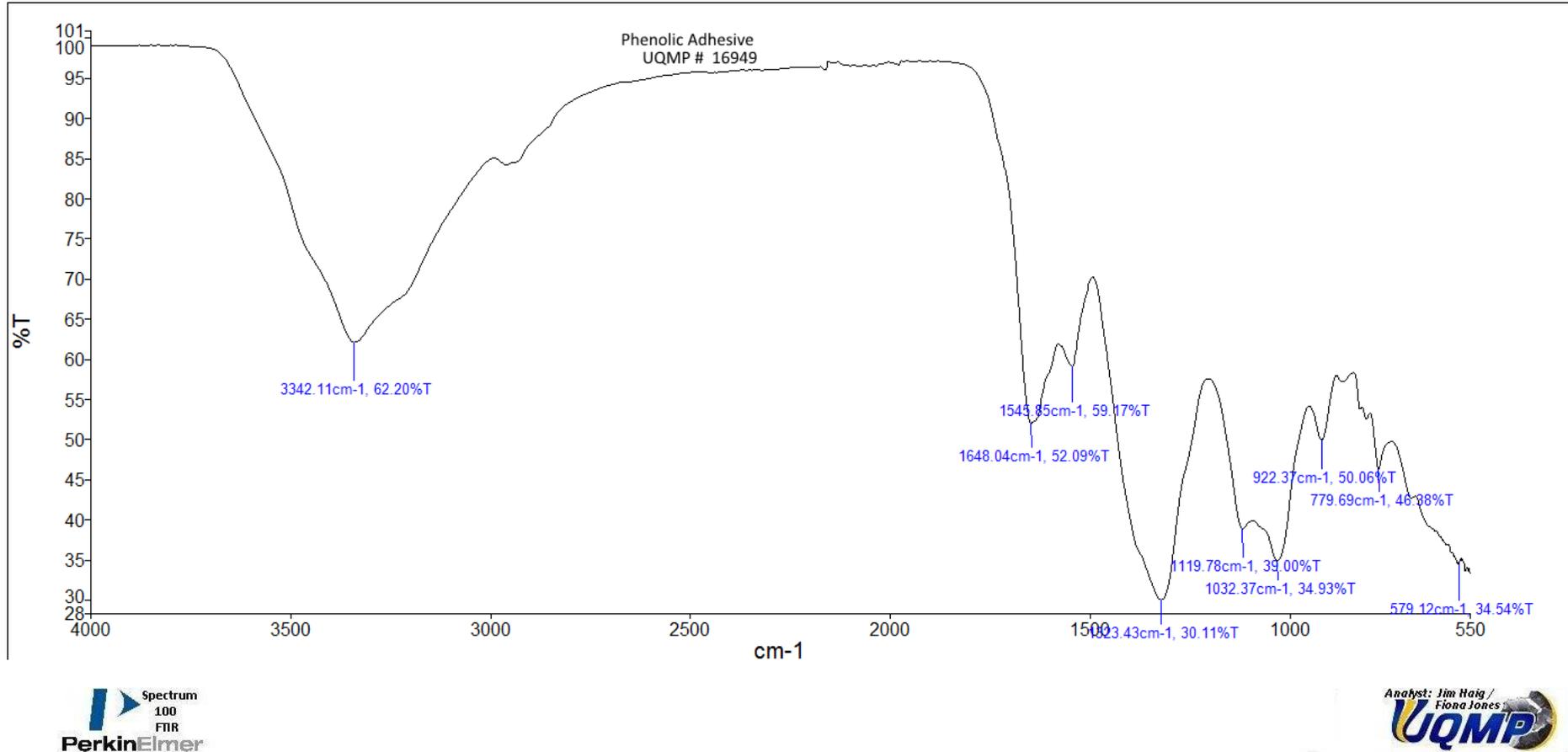


Figure 2-1. Euro Selektta Clad, UQMP # 16949. This spectrum is consistent with a phenolic adhesive, a thermosetting resin. Phenolic resins typically yield a weak spectrum; the chemical composition cannot be resolved further. There is no evidence of polyethylene in the spectrum.



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