



TECHNICAL REPORT ON THE IDENTIFICATION OF AN UNKNOWN POLYMER SAMPLE

Client: Adele Schaverien

P O Box 231, Turrumurra, NSW 2074

ExcelPlas Job # 3953

P.O. Box 147, Moorabbin, VIC 3189

www.excelplas.com

21 February 2014

COMMERCIAL-IN-CONFIDENCE



1. Objective

The objective of this study is to determine the identity of an unknown polymer sample.

2. Samples Supplied

One sample of an unknown material was supplied by Adele Schaverien for identification purposes.

The description of the sample was:

Piece from an Australian made ice bucket

3. Testing Undertaken

Fourier Transform Infrared (FT-IR) 'finger-printing' to identify molecular structural properties.

4. Method of Sampling.

The entire sample supplied was used in the testing operation.

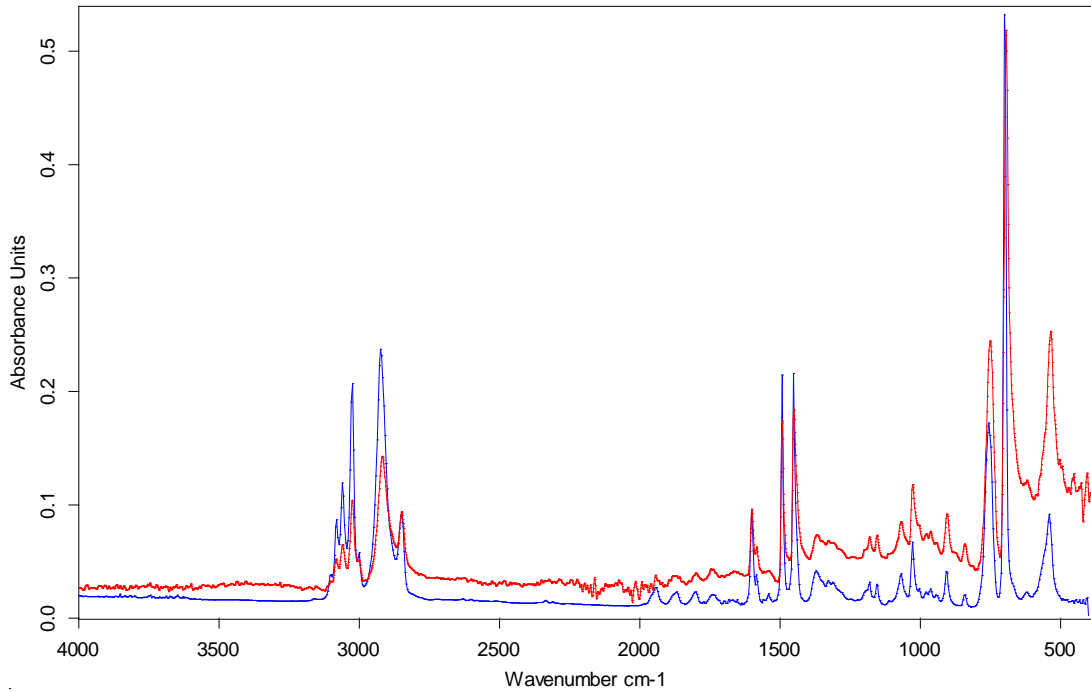
5. Testing Methodology

FT-IR analysis was performed according to ASTM E 573, using an Alpha Measurement Module by Bruker Optik.



6. Results

6.1 FT-IR analysis



C:\Program Files\OPUS_65\Data\Job # 3918\MEAS\Job # 3953 Moulding Fragment.0	Job # 3953 Moulding Fragment	Instrument type at	10/02/2014
C:\Program Files\OPUS_65\search\Hit333.0	POLYSTYROL 7000	CAST FILM FROM THF ON KBR	

Page 1/1

7. Conclusion

The infrared spectrum of the sample supplied is an extremely close match to the infrared spectrum of polystyrene. This is evidence that the material used to manufacture the ice bucket from which the sample was taken was polystyrene.





Rod Parry, B. Sc., MBA (Tech Mgmt)
Laboratory & Technical Manager
ExcelPlas Pty. Ltd.

ExcelPlas Polymer Technology & Testing,
Postal address: PO Box 147, Moorabbin, VIC 3189
Australia
Email address: rod@excelplas.com
p. +613-9532-2207

Terms & Conditions:

The testing herein is based upon accepted industry practice as well as the test methods listed.

Test results reported herein do not apply to samples other than those tested.

ExcelPlas neither accepts responsibility for nor makes claim as to the final use and purpose of the material.

It is up to the client to validate the suitability of any material recommendations contained in this report by conducting proper product field trials to establish 'fitness for purpose' to their satisfaction.

ExcelPlas shall not be liable for any losses, costs, damages or expenses incurred by the recipient or any other person or entity resulting from the use of any information or interpretation given in this report.

ExcelPlas observes and maintains client confidentiality. ExcelPlas limits reproduction of this report, except in full, without prior approval of ExcelPlas.

ExcelPlas Pty. Ltd. is dedicated to Customer Service and welcomes your feedback. Please email enquiries@excelplas.com to send us your suggestions or comments. We thank you for your time.

