

Campden BRI group:

Campden BRI (registered no. 510618)
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Registered office:

Station Road ♦ Chipping Campden ♦ Gloucestershire ♦ GL55 6LD ♦
UK



Confidential report for:

Polywood Innovations Ltd

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Anthony's Way

██████████████████

Rochester

██████

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Report on:

Water Vapour Transmission Rate Testing of two containers.

Work performed by Campden BRI (Chipping Campden) Limited
Report number: Packaging/REP/153710/1 ♦ Issue date: 18th May 2021

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Introduction

Polywood Innovations requested water vapour transmission rate (WVTR) to be carried out on two containers. WVTR Testing was carried out at test conditions of 23°C.

Method

Empty containers were received by Campden BRI. Two containers of each type were mounted on to aluminium plates with holes drilled to allow the pipework to fit through. Steel reinforced epoxy resin was used to secure the trays to the aluminium plates and secure the pipework within the holes ensuring that no leaks were present. WVTR testing was conducted according to Campden BRI in house test method TES-FMT-37 which is based on ASTM F1249.

Results

WVTR results are shown in table 1 displaying test condition and samples tested.

Table 1 - WVTR Results

Sample	Test Conditions	Rep1 (g/pack/day)	Rep 2 (g/pack/day)	Mean (g/pack/day)
Polywood Brown Bottle	23°C	0.0073000	0.0095195	0.0084098
████████ White Container		0.0019105	0.0011230	0.0015168

Discussion

The results showed that the tested containers were considered a very good barrier to moisture.