Pope Packaging Papersacks

Pope PACKAGING

The Solution

The **ENVIROBARRIER™** Bag

The Australia's First 100% Recyclable

Patented 100% Bio-Degradable

Moisture Resistant Paper Sack

ENVIROBARRIER™

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The Benefits

The **ENVIROBARRIER™** Bag

Improved shelf life

USFDA approved

Improved filling speeds

Reduction in landfill

Positive customer and consumer response

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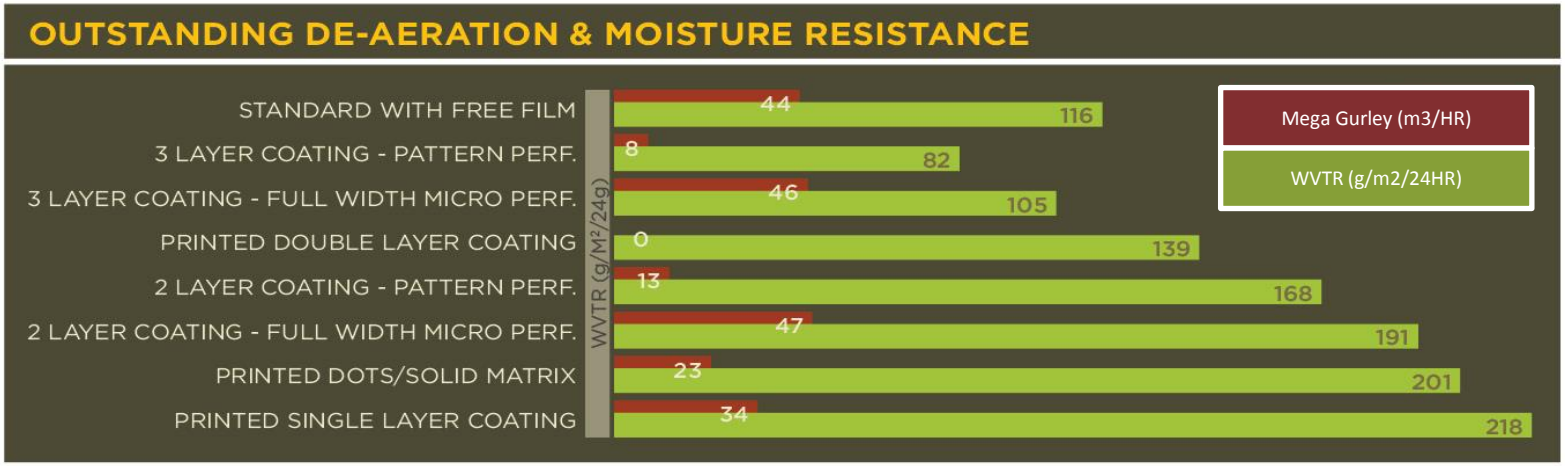
Mondi R&D Test Results



Air resistance (the time taken for air to pass through a paper structure such as a paper sack) is measured in Mega Gurley seconds. Water Vapour Transmission (WVTR) is a measure of humidity and moisture resistance.

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Biodegradability Assessment Been Conducted at CSIRO

Testing is conducted to a standard (AS 4736 & EN 14332)

5 key areas are

Heavy Metal Concentration (In 14 days)

Biodegradation (In 45 days)

Disintegration (In 98 days)

Plant Toxicity (In 14 days)

Worm Toxicity Test (AS 4736 only) in 14 days

ENVIROBARRIER™ CSIRO AS4736 Certified

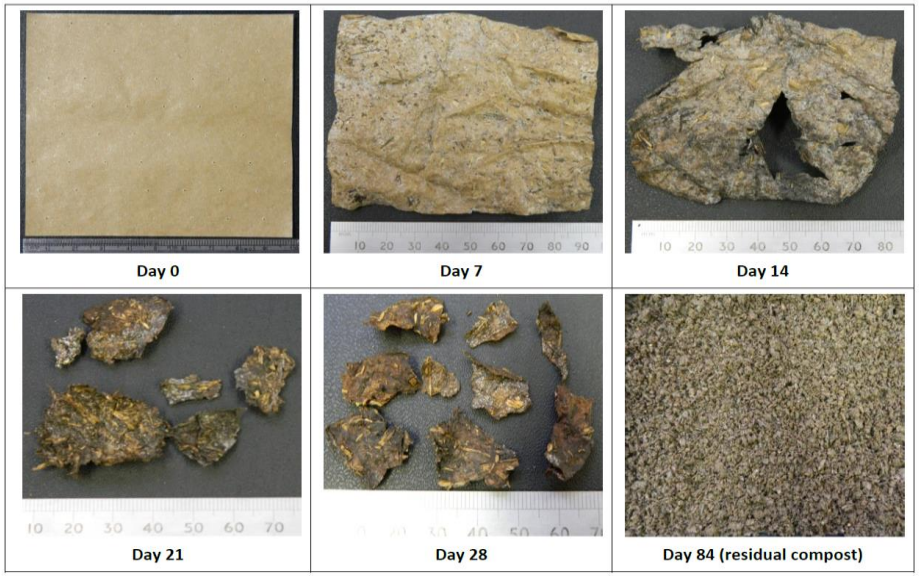
CSIRO MANUFACTURING
www.csiro.au

AS4736 Testing of Brown Sack Kraft Paper Bag

A summary of test results[1]

Brown sack Kraft paper bag was evaluated according to Australian Standard AS4736, and the test product met the performance requirements for; characterisation, disintegration and aerobic biodegradability. A similar Kraft paper product[2] was assessed separately for ecotoxicity and met the AS4736 requirements. Based on these test results, it is assumed that brown sack Kraft paper bag should also meet the ecotoxicity criterion of AS4736.

AS4736 assessment	Criteria	Pass/Fail
Characterisation	Test material shall contain >50% volatile solids content, concentration of heavy metals and toxic substances shall be within maximum permissible limit	Pass
Disintegration	Not more than 10% w/w (dry weight) of the original dry weight of test material shall fail to pass through a 2mm fraction sieve (ISO 16929)	Pass
Aerobic Biodegradability	Test material shall degrade at least 90% w/w (dry weight) in total or of the maximum degradation of a suitable reference substance (AS ISO 14855)	Pass



Photographs of brown sack Kraft paper bag disintegration test

[1] Extract from CSIRO report No. EP153063. NATA Lab Accreditation No. 15725
[2] CSIRO report No. EP153060

NATA
WORLD RECOGNISED ACCREDITATION

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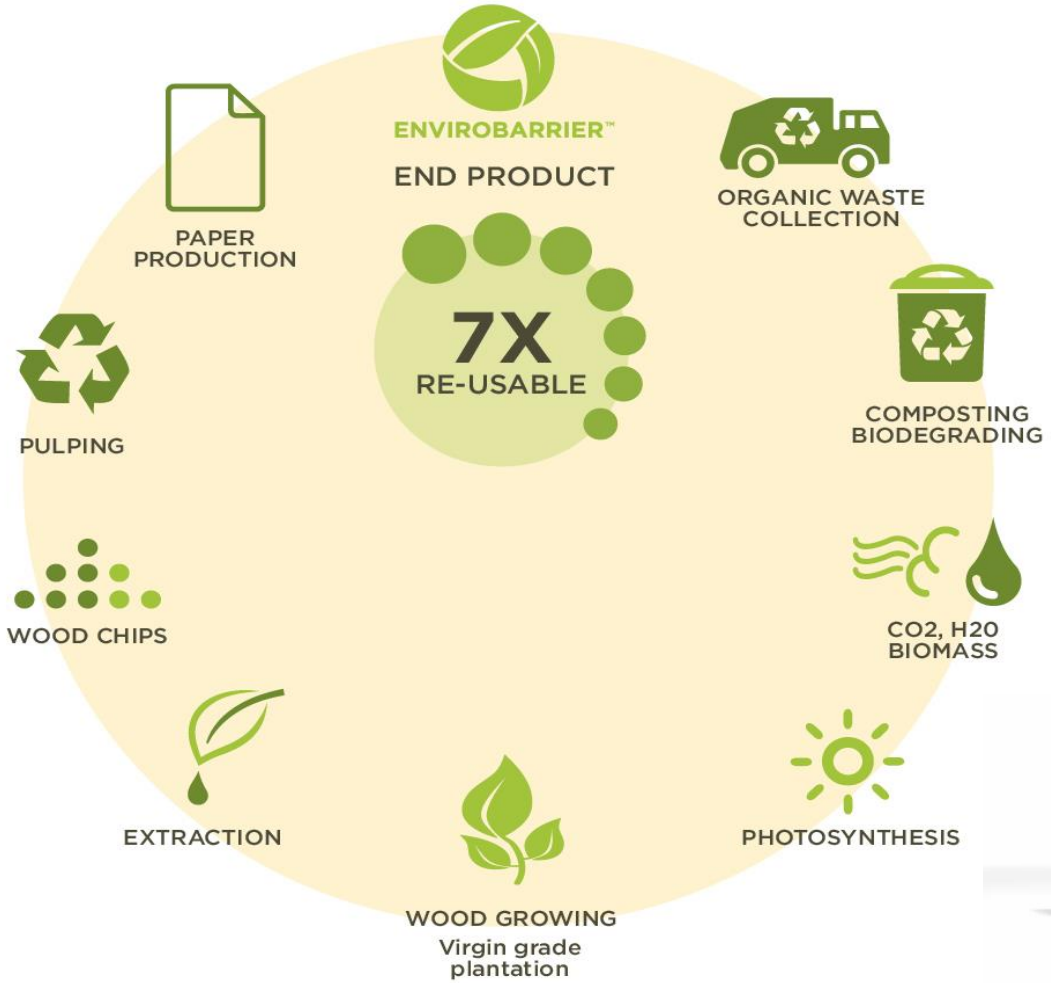

Enviro Barrier Video

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ENVIROBARRIER™ Australian Packaging Awards – 3 Gold awards

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ENVIROBARRIER™ World Star Award

WORLDSTAR
2016
AWARDS FOR
PACKAGING
EXCELLENCE

Awarded to
Pope Packaging

For
Enviro Barrier

President
Thomas L. Schneider

General Secretary
Keith Pearson

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