



Melodea
RECYCLABLE PACKAGING SOLUTIONS

SUPERIOR PACKAGING BY DESIGN

SUSTAINABLE BY NATURE

Company presentation 2026



MISSION



MELODEA

NEXT-GEN RECYCLABLE FLEXIBLE PACKAGING MADE SIMPLE

Mono material paper or plastic structures with lower costs and superior barriers. Replace Aluminum & EVOH—no CapEx, easy scale-up. Expert partners in paperization and recyclable packaging solutions.



THE CHALLENGE



Players in the flexible packaging industry are seeking new, mono-material, recyclable structures to replace non-recyclable multilayer plastic and paper packaging.

Alternatives to EVOH and aluminum, with no CapEx or complex manufacturing integration.

Industry seeks mono-material, cost-effective, production-ready recyclable solutions.



SOLUTIONS



**ADVANCED PACKAGING
STRUCTURES, LOWER COSTS,
SUPERIOR PERFORMANCE**



PAPER SOLUTIONS

Paperization with a Longer Shelf Life

- ✓ Superior Water Vapor, Oxygen, Grease & Aroma Barrier (WVTR & OTR)
- ✓ Easy Transition from Plastic to Sustainable Paper Packaging
- ✓ Decrease or Eliminate Plastic Content
- ✓ Water-Based, Recyclable, and Repulpable
- ✓ Universal Packaging Compatibility



PLASTIC SOLUTIONS

Superior Eco-Friendly Plastic Solutions

- ✓ Superior Oxygen Barrier (OTR)
- ✓ Extended Shelf Life
- ✓ Lower Capital Expenditure (CapEx)
- ✓ Innovative 100% Recyclable Packaging Design
- ✓ Replaces Complex Barriers such as EVOH and Aluminum
- ✓ Print-ready and Lamination-ready



PRODUCTS

VBSEAL

HIGH WATER VAPOR BARRIER



Heat-sealable, high-performance water vapor, oil, grease, and aroma barrier



Recommended for fresh food, morning cereal, fast food, biscuits, tea, and butter

MELOX NGEN

ULTRA-HIGH OXYGEN BARRIER



High-performance oxygen barrier



Recommended for fresh foods, coffee, nuts, meat, fish, and cheese



Your high-quality alternative to plastic

Your high-quality alternative for EVOH, AlOx, SiOx

PLASTIC SOLUTIONS

Partial structures

ENHANCED OXYGEN BARRIER TECHNOLOGY FOR THE PLASTIC PACKAGING FILM INDUSTRY

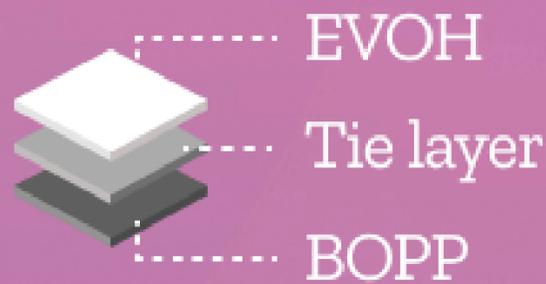


BOPP MEDIUM/HIGH BARRIER FILM

NEW STRUCTURE



OLD



OTR <1 or <5 cc/(m²·day) ,depending on coat weight, @50%RH. Reduce costs by up to 25%

REPLACING METALIZED PET ULTRA-HIGH BARRIER FILM

NEW STRUCTURE



OLD



OTR <0.5 cc/(m²·day) @50%RH
Reduce costs by up to 15%



PLASTIC SOLUTIONS

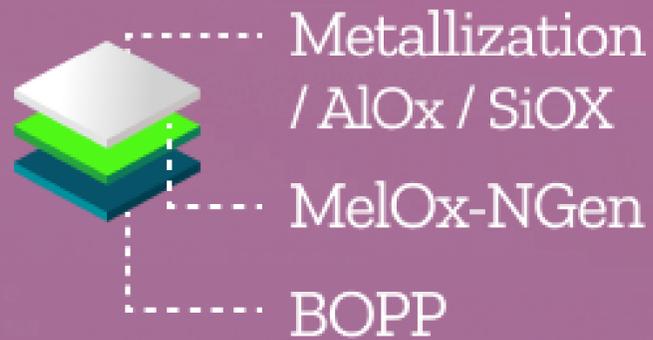
Partial structures

ENHANCED OXYGEN BARRIER TECHNOLOGY FOR THE PLASTIC PACKAGING FILM INDUSTRY

REPLACING ALUMINUM FOIL

TRANSPARENCY IS DEPENDENT ON THE METALLIZATION TYPE

NEW STRUCTURE



OLD

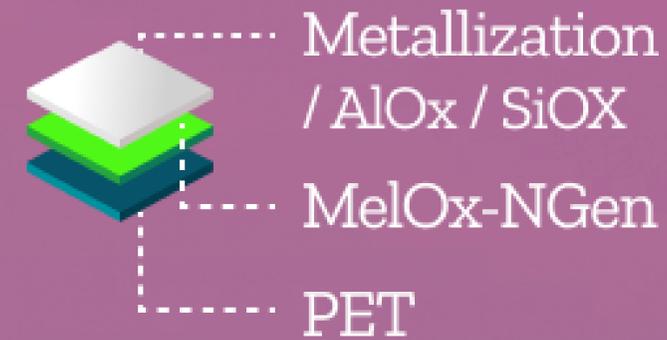


OTR < 0.2 cc/(m²·day) @50%RH
Reduce costs by up to 45% per SQM

REPLACING ALUMINUM FOIL

TRANSPARENCY IS DEPENDENT ON THE METALLIZATION TYPE

NEW STRUCTURE



OLD



OTR < 0.2 cc/(m²·day) @50%RH
Reduce costs by up to 45% per SQM



PAPER SOLUTIONS



ENHANCED BARRIER TECHNOLOGY - FOR THE PAPER PACKAGING INDUSTRY

HIGH WATER VAPOR, OIL & GREASE BARRIER PAPER

NEW STRUCTURE



OLD



or



- High water vapor barrier $< 2 \text{ cc}/(\text{m}^2 \cdot \text{day})$ at 50% RH and $< 15 \text{ cc}/(\text{m}^2 \cdot \text{day})$ at 90% RH
- Ultimate oil and grease barrier
- Aroma barrier
- Heat sealing capabilities

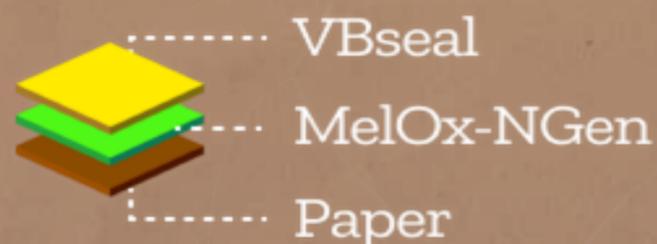


PAPER SOLUTIONS

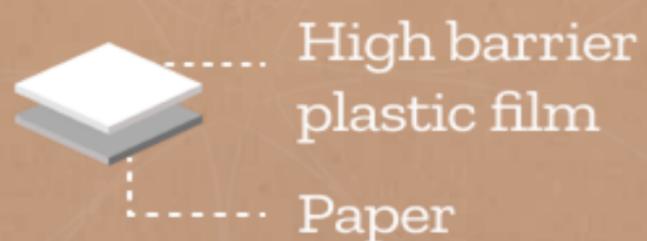
ENHANCED BARRIER TECHNOLOGY - FOR THE PAPER PACKAGING INDUSTRY

HIGH BARRIER PAPER

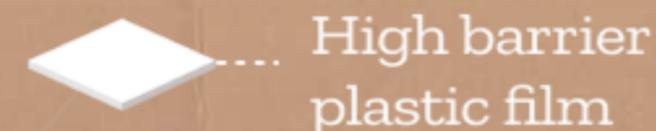
NEW STRUCTURE



OLD



or



Ultra-high oxygen barrier $< 0.5 \text{ cc}/(\text{m}^2 \cdot \text{day})$ at 50% RH
High water vapor barrier $< 2 \text{ cc}/(\text{m}^2 \cdot \text{day})$ at 50% RH and $< 15 \text{ cc}/(\text{m}^2 \cdot \text{day})$ at 90% RH
Ultimate oil and grease barrier,
Aroma barrier
Heat sealing capabilities

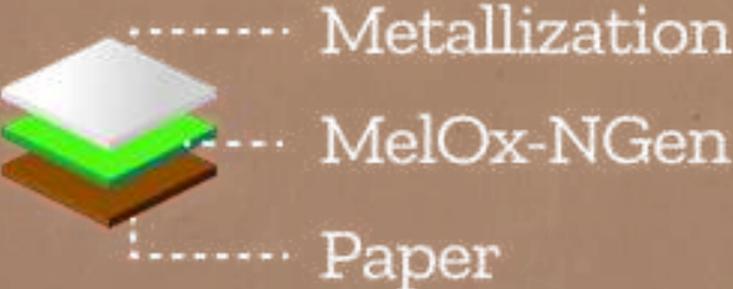


PAPER SOLUTIONS

ENHANCED BARRIER TECHNOLOGY - FOR THE PAPER PACKAGING INDUSTRY

ULTRA-HIGH BARRIER PAPER

NEW STRUCTURE



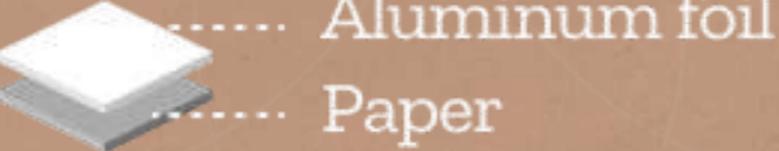
OLD



or



or



REGULATORY COMPLIANCE & CERTIFICATIONS

FREE of:

- Bisphenol A
- Phthalates
- PFAS



PRODUCTION AND IMPLEMENTATION



SUITABLE FOR PRODUCTION USING
COMMON PRINTING MACHINES, SUCH AS
GRAVURE OR FLEXOGRAPHIC PRINTING



SUITABLE FOR HIGH-
PRESSURE APPLICATIONS
(MAP, RETORT, STERILIZATION)



READY FOR
LAMINATION WITH
VARIOUS ADHESIVES



COMPATIBLE WITH
VARIUS TYPES OF INKS



360° SUPPORT



Advanced R&D center
for packaging optimization



Mocon instruments
for WVTR/OTR measurement



Seamless Transition to Production



EXPERT SUPPORT
PROVIDED THROUGHOUT
IMPLEMENTATION



MEET THE TEAM



Dr. Shaul Lapidot
CEO & Co-founder

Co-founder & CEO with more than ten years of research leadership and business in the field of biomaterials



Alon Hayka
Commercial Director

An entrepreneur, co-founded Galileo and DenX Advanced Medical Systems, leading it to a public and private offering while raising over \$100M



Dr. Einav Barak-Kulbak
R&D Director

Extensive research leadership in the field of biomaterials production and product development



Prof. Oded Shoseyov
Scientific Advisor & Co-Founder

Prolific inventor, with 25 years of extensive experience with plant genetic engineering, protein engineering & nano-biotechnology



Albert Douer
Chairman of the Board

Industrialist and entrepreneur in cleantech and plastics, with active investments in recycling technology startups



RECOGNITION



FachPack 2019



WPO
WORLD
PACKAGING
ORGANISATION

**WORLDSTAR
WINNER 2020**



Packaging Europe
2023



2024 GLOBAL RECOGNITION AWARD

WINNER

WWW.GLOBALRECOGNITIONAWARDS.ORG

Global Recognition
2024



Interpack 2020



World Sustainability
and ESG Awards 2024



Sustainable Packaging
Innovation, 2024



European Green, 2024



World Sustainability
Awards 2024





Melodea
Recyclable Barrier Solutions

**YOUR
RECYCLABLE PACKAGING
IS ONE STEP AWAY**

