



Soluciones de envase Fresh to Table: Packaging Solutions

Isabel Arroyo (DOWCHEMICAL)



Fresh to Table: Packaging Solutions

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Valencia, May 2017*

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Key Facts About Dow



Mission

To passionately create innovation for our stakeholders at the intersection of chemistry, biology and physics

Vision

To be the most valuable and respected science company in the world



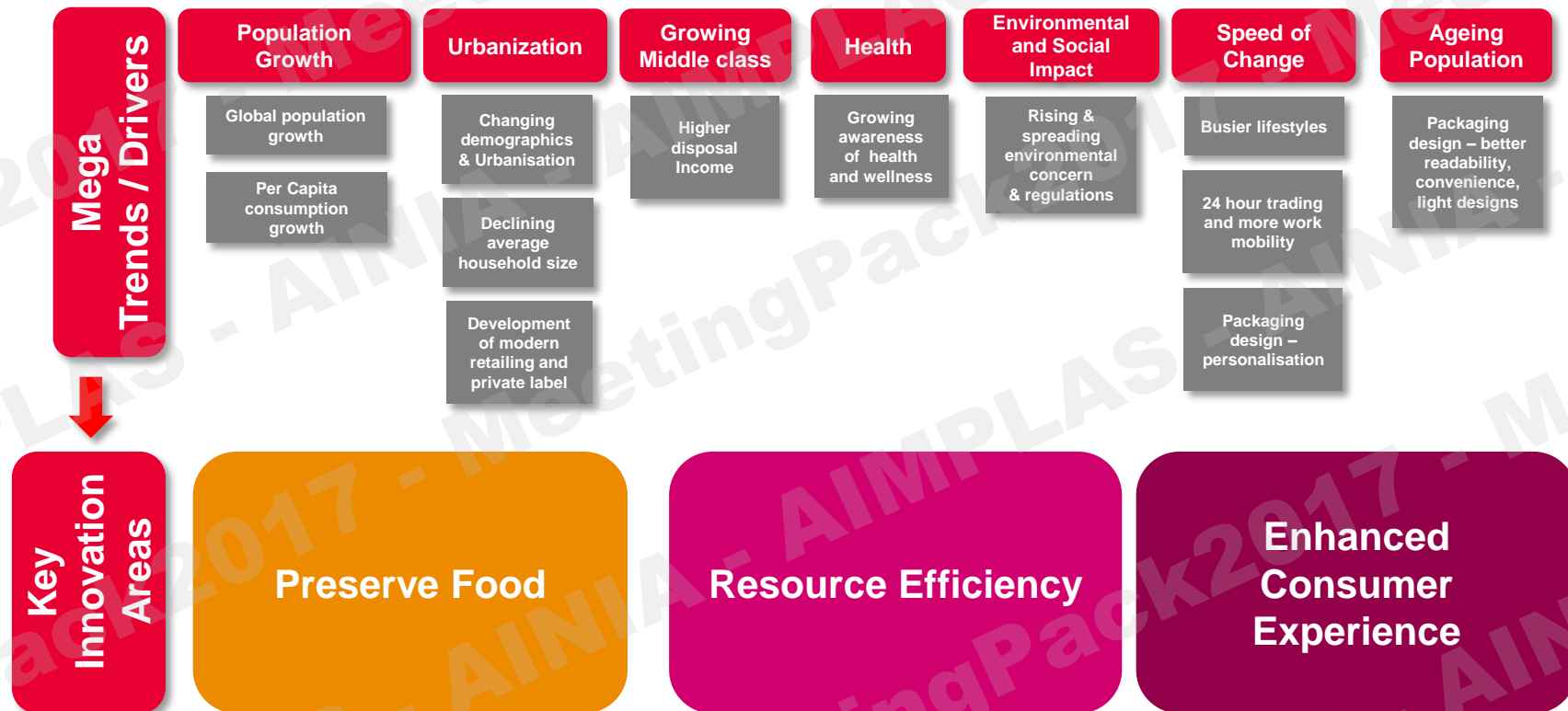
Dow Sites Around the World



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Fresh to Table Packaging Solutions



Fresh to Table Packaging Solutions

Innate
precision
packaging resins



Adcote
adhesives and coatings by



KEEP IT FRESH
with The
All-polyolefin Coffee
Pack

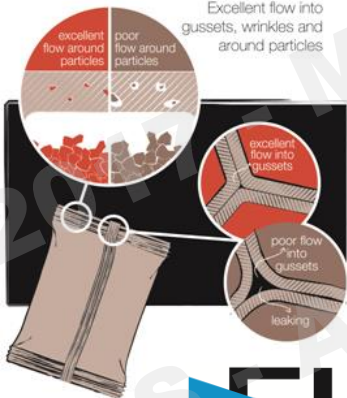
**Enhanced
Consumer
Experience**



**Resource
Efficiency**

**Preserve
Food**

Excellent flow into
gussets, wrinkles and
around particles



EliteTM **AT**
ENHANCED POLYETHYLENE

Pouch Hug

sensory packaging technology by



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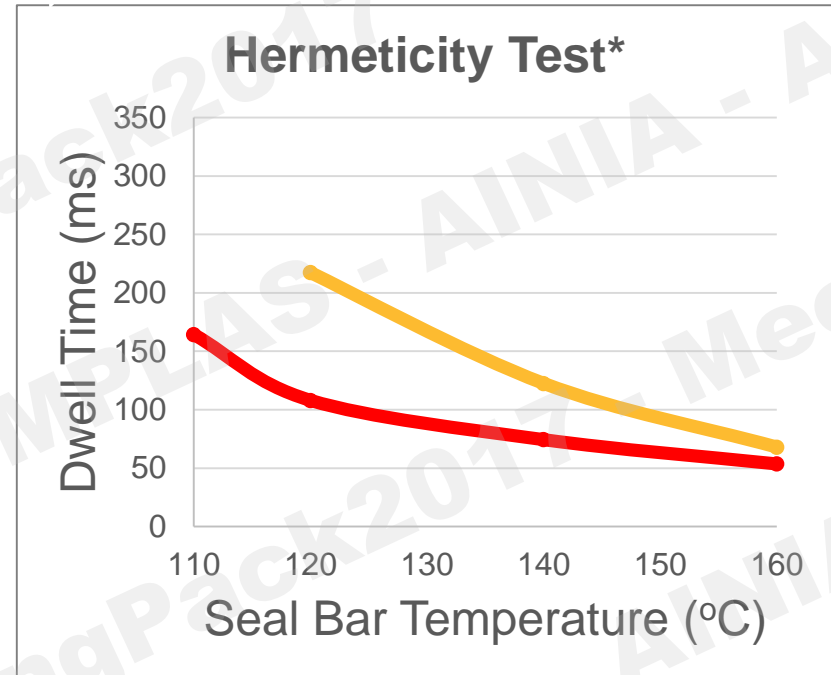
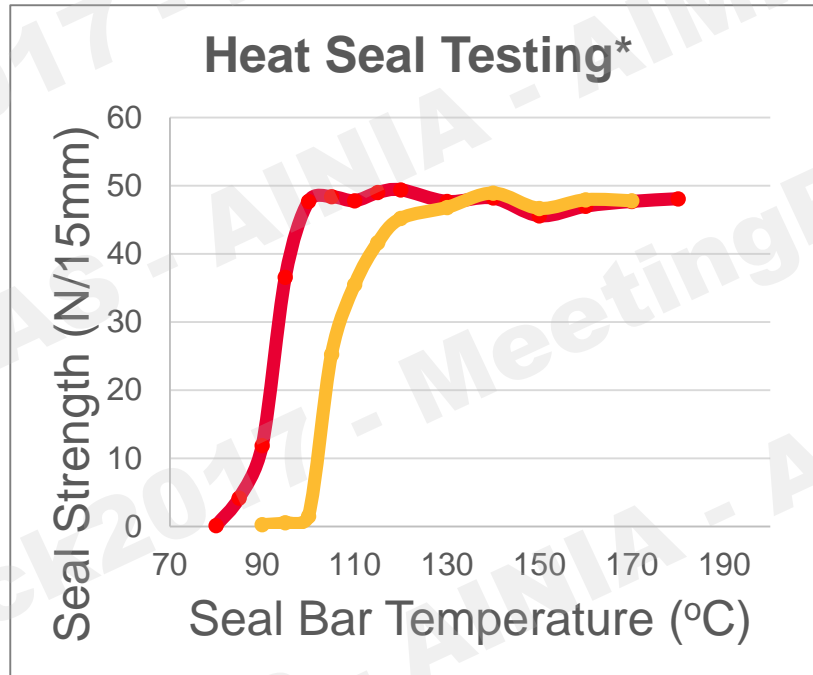
Preserve Food Packing With Confidence



Laboratory Testing



VFFS Machine Testing



*Source DOW:

Films are PET12μ/PE50μ

Red line: Sealant layer (10μ) AFFINITY™ PL 1881G + 20% DOW LDPE 312E

Yellow line: Sealant layer (10μ) DOWLEX™ 4056.01G + 20% DOW LDPE 312E

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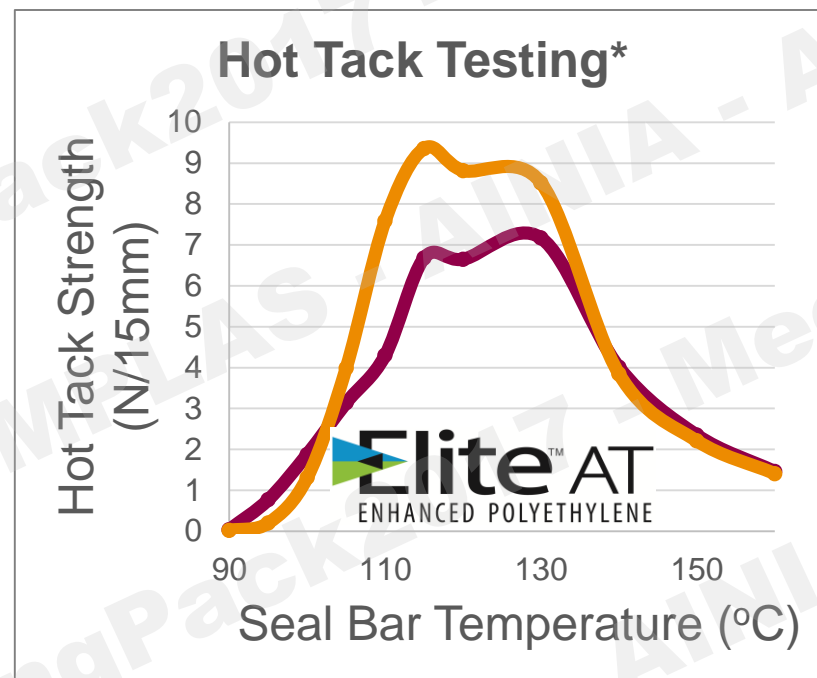
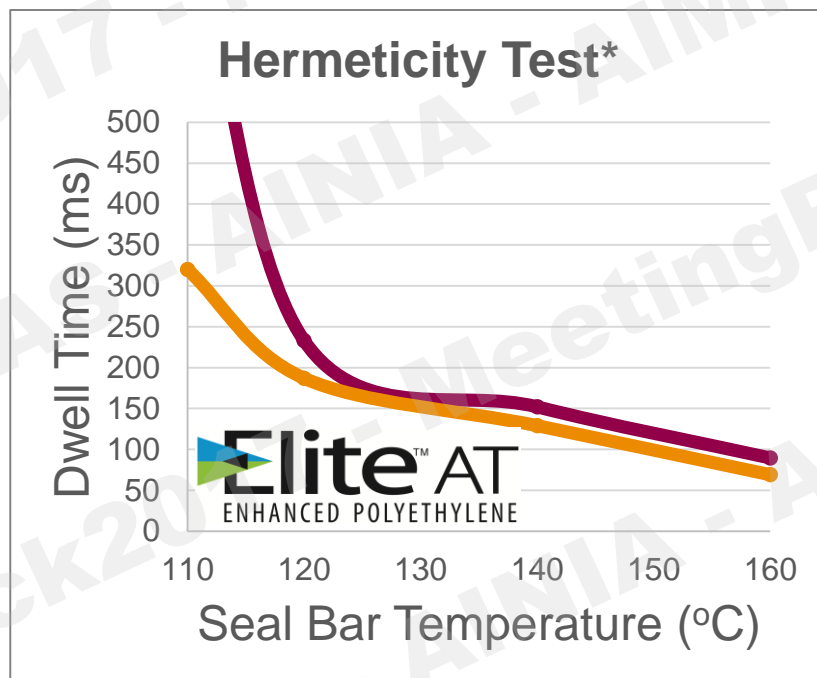


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Preserve Food Packing With Confidence



Sealant XUS 59999.35 ⁽¹⁾ a new standard for the packaging industry



*Source DOW:

Films are PET12μ/PE50μ

Plum line: Sealant layer (10μ) ELITE™ 5401G + 15% DOW LDPE 312E

Orange line: Sealant layer (10μ) NEW XUS 59999.35 ⁽¹⁾ + 15% DOW LDPE 312E

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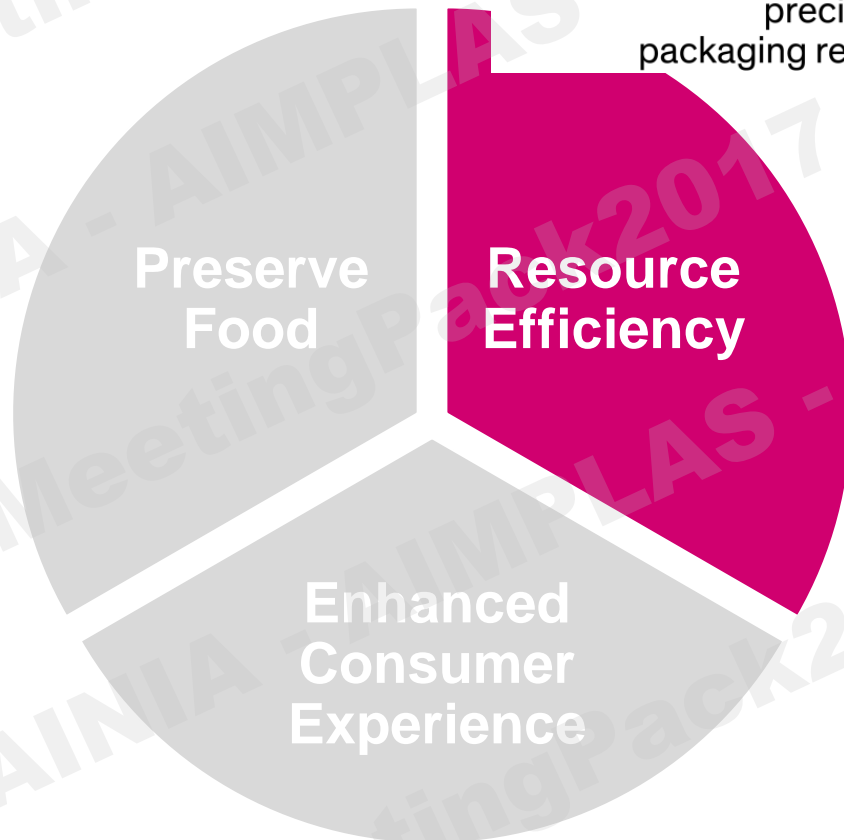
⁽¹⁾Developmental product of The Dow Chemical Company



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Fresh to Table Packaging Solutions

Innate
precision
packaging resins



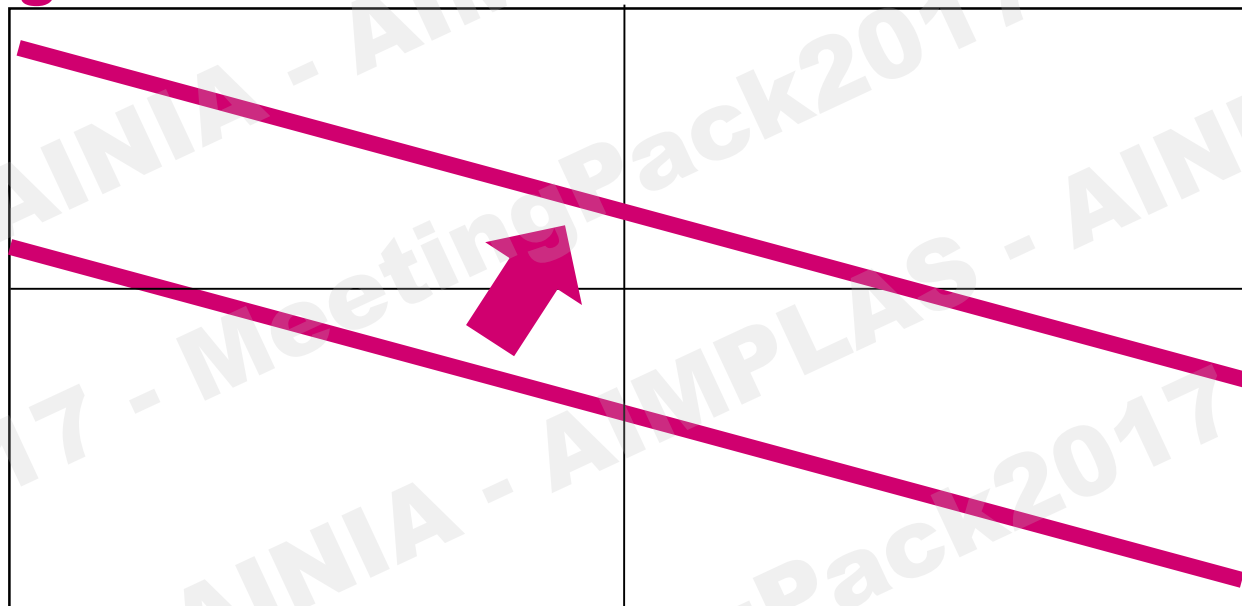
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Resource Efficiency Introducing INNATE™ Precision Packaging



Toughness



Stiffness



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Resource Efficiency

Introducing INNATE™ Precision Packaging



For customers who need **improved film mechanics** in low temperature **food packaging**, INNATE™ provides unprecedented **stiffness/toughness** balance vs mPE with excellent processability **for up to 25%* thickness reduction** in PE co-ex films.



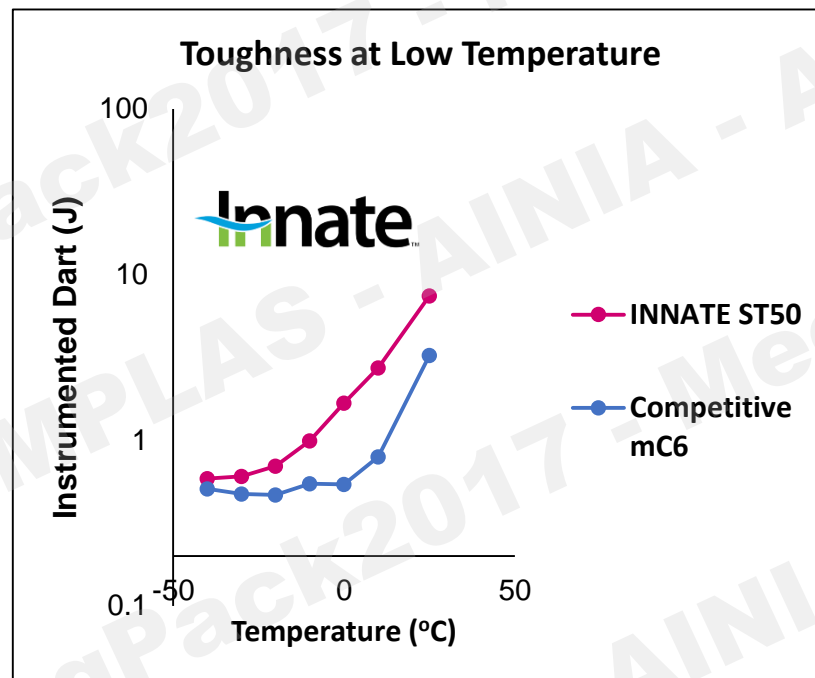
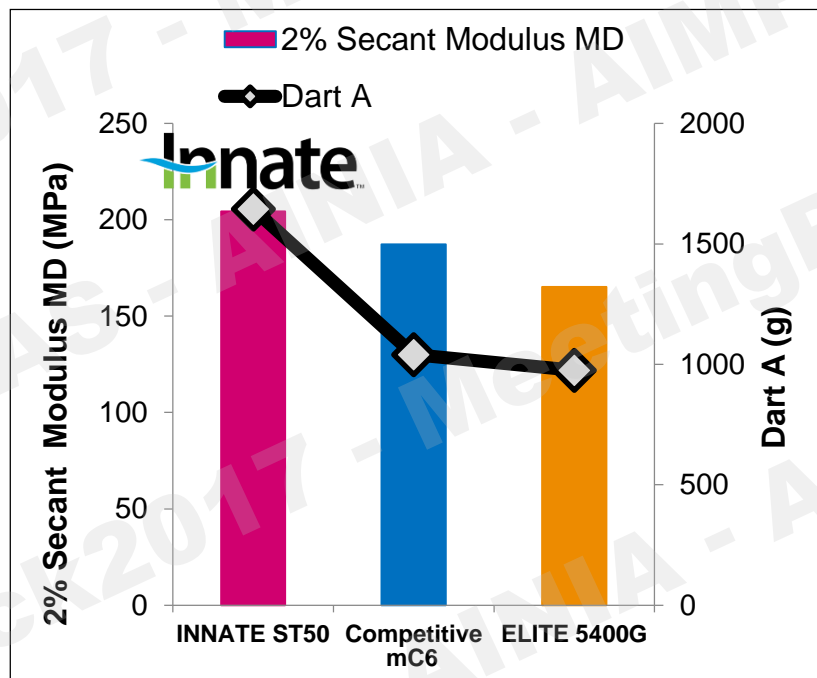
| PRODUCT | MI (g/10min) | DENSITY (g/cc) | KEY PERFORMANCE |
|---------------|-----------------|-------------------|--|
| INNATE™ ST 50 | 0.85 | 0.918 | <ul style="list-style-type: none">• Toughness – Stiffness Balance• Enhanced Dart Drop Impact• Processability |
| INNATE™ TH 60 | 0.85 | 0.912 | <ul style="list-style-type: none">• Low Temperature Toughness• Sealability and Improved Hermeticity |

**Down-gauging values based on Dow testing and is specific to the film structure. Users should confirm results by their own tests.*



Resource Efficiency

Introducing INNATE™ Precision Packaging



INNATE™ Provides Superior Impact Resistance!



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INNATE™ Precision Packaging Resins Offer:



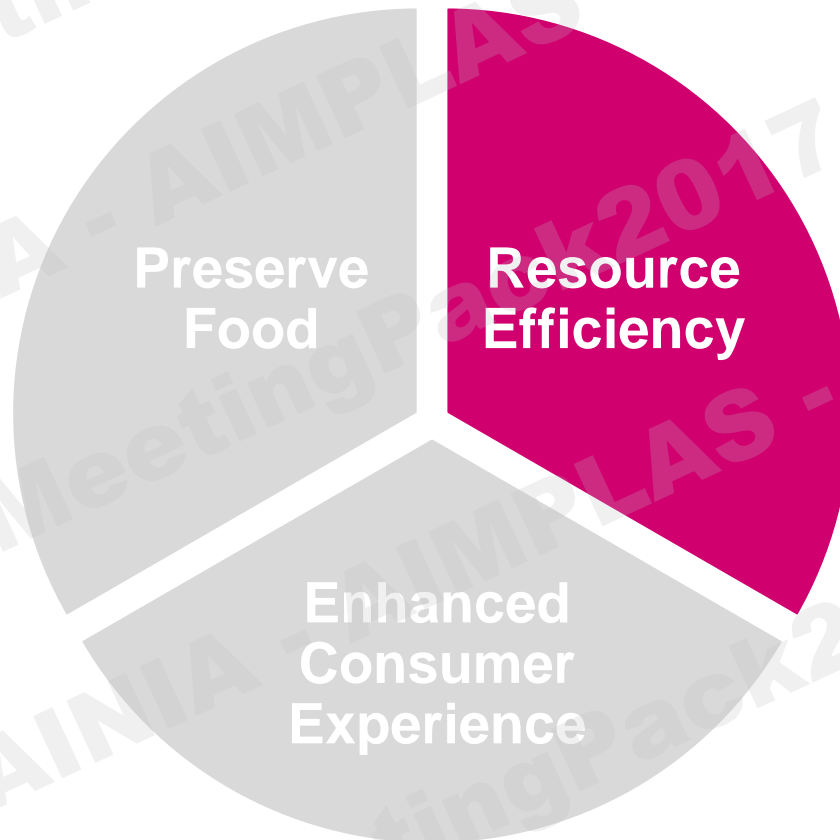
- Film toughness without compromising stiffness and other key properties
- Excellent sustainability profiles due to light-weighting potential
- Up to twice the abuse resistance in co-extruded films compared to tested standard polyethylene resins on the market
- Processing ease with excellent bubble stability
- Excellent blending capabilities to increase film performance



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Fresh to Table Packaging Solutions



Adcote[™]
adhesives and coatings by



KEEP IT FRESH
with The
All-polyolefin Coffee
Pack



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Resource Efficiency

Introducing ADCOTE™ L86-500 Barrier Adhesive



Solvent Based Adhesive



Excellent Chemical
Resistance



Good Adhesion on Most
Common Substrates



Quick Food Safety
Compliance



Functional Barrier Support



Resource
Efficiency



Shelf Life
Optimization



Flex Crack
Resistance



Structure Flexibility Enabler



Recyclability



Cost
Effectiveness

Adcote
adhesives and coatings by



Much more than an Adhesive!



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Resource Efficiency

Introducing ADCOTE™ L86-500 Barrier Adhesive



KEEP IT FRESH
with The
All-polyolefin Coffee Pack

ENABLED BY
ADCOTE™ L86-500
BARRIER ADHESIVE

Coffee Pack Structure

TODAY

PET12//metPET12//PE70
PET12//Alu7//PE70

KEEP IT FRESH

BOPP20//metBOPP20//PE50



Recyclable



Resource
Efficient



Cost
Effective

Barrier Performance*

OTR: <2 cc/m²/day
WVTR: <0.2 g/m²/day



Shelf Life
Optimization

*Source Dow

Produced in
Cooperation with:



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Fresh to Table Packaging Solutions



PouchHug™

sensory packaging technology by



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Enhanced Consumer Experience Pouchug™ Film Laminate



Non-woven

MorFree
solventless adhesives

Elite
enhanced
polyethylene resins

Affinity
polyolefin plastomers

Pouchug™
sensory packaging technology by 



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Fresh to Table Packaging Solutions

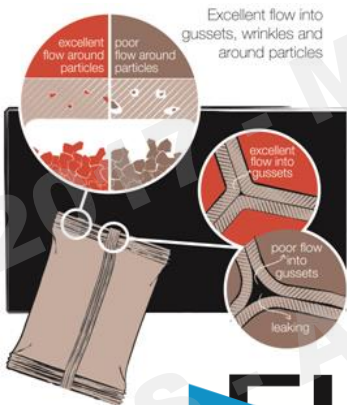
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EliteTM **AT**
ENHANCED POLYETHYLENE

**Preserve
Food**

**Resource
Efficiency**

**Enhanced
Consumer
Experience**



Pouch HugTM

sensory packaging technology by



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An Invitation To Collaborate Dow Pack Studios



Collaborate

Innovate

Accelerate

**Material
Science**



**Process
Research**



**Catalyst
Research**

Application Development



pack *STUDIOS*
COLLABORATE • INNOVATE • ACCELERATE



Converter



**Supplier /
Equipment
Manufacturer**



Brand Owner



Retailer

Research

Development

Commercialization



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**Together We Can Drive The
Changes For New Packaging
Performance!**

Thank you!

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For more information, please contact:

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