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The chemistry inside innovation™

Celanese Improved Adhesion Ateva® ExtruBond™ EVA for Extrusion Coating / Extrusion Lamination

James T. Jones
Vice President EVA Polymers

Long Term Commitment to EVA Polymers

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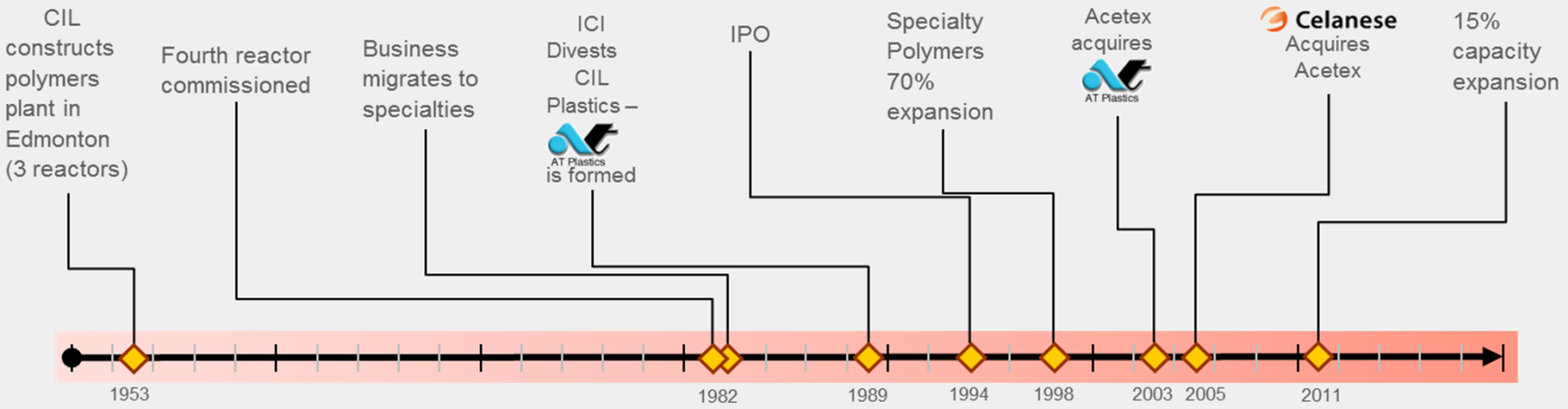

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Flexible Packaging

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Celanese Ateva® EVA polymers provide excellent heat sealing properties, organoleptics, optical properties, inter-layer adhesion, and compatibility for multi-layer films.

Applications

- Multi-layer Food Packaging
- Multi-layer Industrial Films
- Decorative Label Films
- Personal Care Films
- Greenhouse and Agricultural Films
- Medical

Improved Adhesion
Ateva® ExtruBond™ EVA

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Objective: Improved adhesion of EVA to various substrates for extrusion coating / extrusion laminating applications

Targeted Outcomes

- Increased adhesion to substrates
- Increased line speeds
- Reduced air-gaps

Markets / Applications

- Flexible Packaging
  - Lidding stock
  - Cheese packaging
- Thermal Lamination
  - Document protection
  - Gift cards
- Medical Packaging

Product Performance
Celanese Ateva® ExtruBond™ EVA

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- Ateva® ExtruBond™ EVA vs. standard Ateva® EVA grades
  - 2-3 fold increase in bond strength
  - Increased line speed while maintaining adhesion
  - Demonstrated no effects to processing conditions
  - Demonstrated no effects to sealing characteristics

Note: Lab and External Extrusion Coating trials were conducted to produce these results.

Going Beyond EVA????

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- Celanese ExtruBond™ LDPE for Extrusion Coating / Lamination
  - Lab tests have demonstrated LDPE adhesion improvements with similar gains to the EVA results
  - 2-9 fold increase in bond strength
- **Session 10 – Developments from Resin Advances,** scheduled for **Wednesday, April 13 at 10:30 AM – 12:00 PM**

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Thank You

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