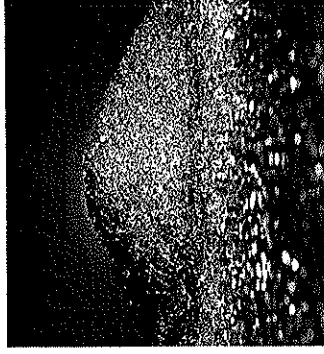




Bayer Material Science

# California Air Resources Board

June 25, 2009  
Sacramento, CA  
Bruce C. Benda



NAFTA Automotive

Bruce Benda  
09-6-4

# Introduction

- **Bayer MaterialScience**

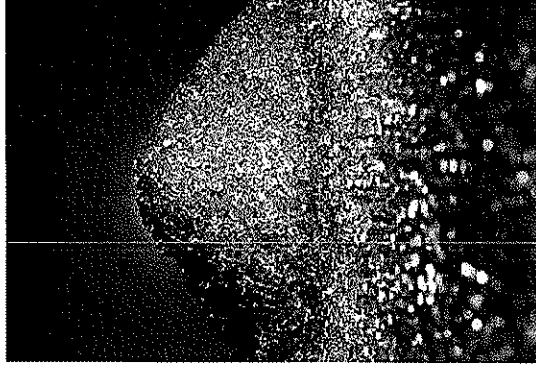


**BayVision**

competence in glazing

- **Polycarbonate (PC)**

- Clear, durable organic polymer
- Low density
- Low processing temperatures



NAFTA Automotive

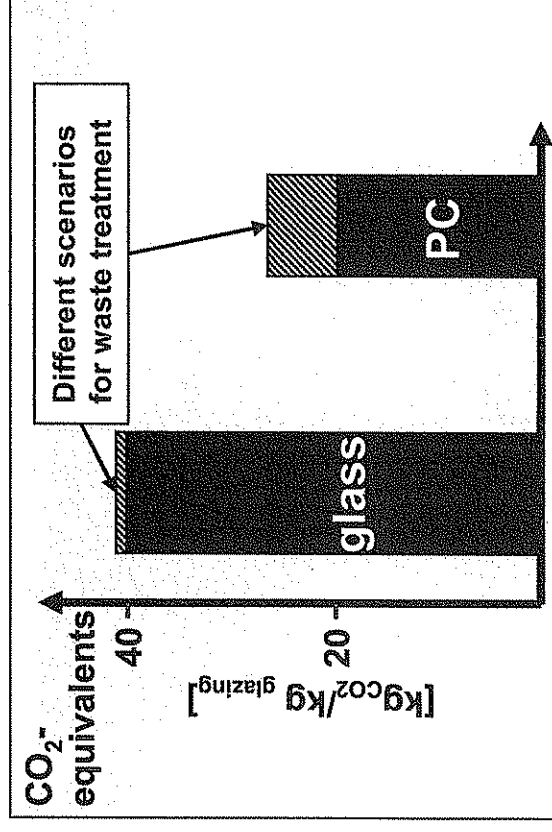
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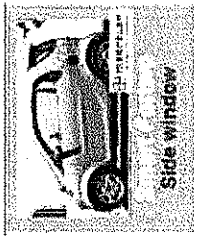
Bayer MaterialScience

# Polycarbonate Automotive Glazing

- Design flexibility e.g. aerodynamics
- Integration and potential cost savings
- Weight savings → Fuel economy → Greenhouse gas emission reduction
- Lifecycle energy / carbon dioxide emission reduction

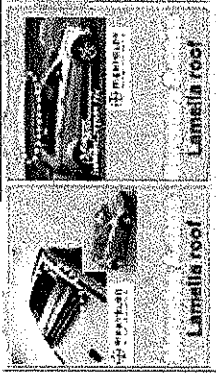


# Polycarbonate Automotive Glazing

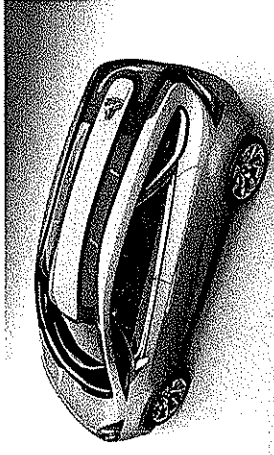
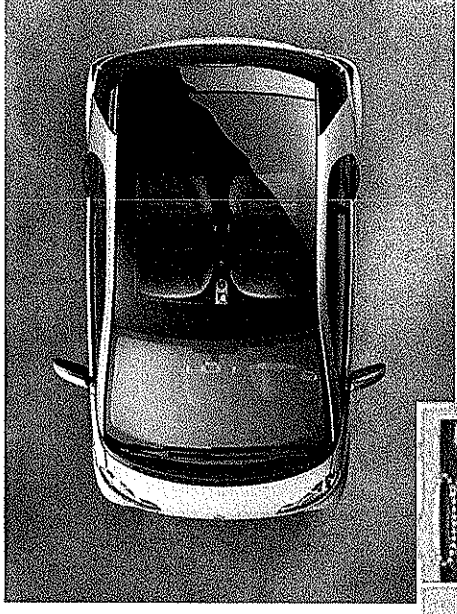


■ History

■ Current Applications



■ Recognition of PC for automotive glazing by government authorities and professional associations



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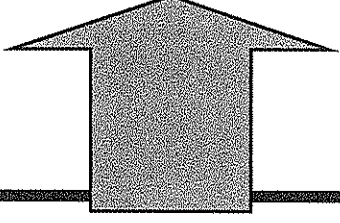
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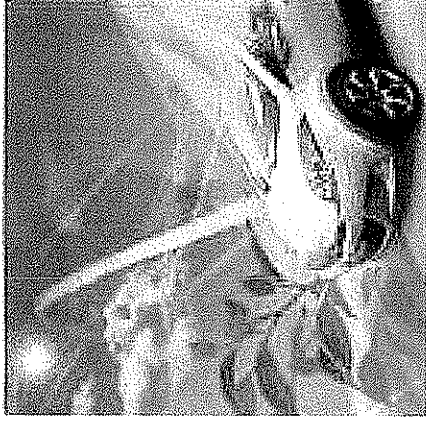
Bayer MaterialScience

# Bayer MaterialScience Position

- Opposes the regulation as written and recommends the inclusion of PC as an alternative material.
- Opposes a delayed implementation for PC under Tts levels recommended for glass.
- Supports the calculations and Tts levels for PC submitted by Exatec, LLC



**CARB can meet  
the objective of  
CO<sub>2</sub> emission  
reduction**



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