

## PARTNERSHIPS FOR MULTILAYER COATING WINDOW FILMS

As a leading innovator in simultaneous, precision multilayer coating technology, Carestream works with partners to develop window films featuring privacy, decoration, and energy and light management attributes for architectural windows, smart windows, sunroofs, rearview mirrors and beyond.

We work with our substrate and chemical suppliers to enhance partner-provided formulations with nanoparticles or other additives, which are evenly dispersed into the solution prior to coating. Our clean room manufacturing practices and air filtration system minimize defects down to the micron level to meet demanding optical requirements. On-line laser and camera inspection systems help us monitor coating quality and quickly react to waste issues. In addition, our production coaters feature dual coating stations that can either coat a second layer on the same side of the film, or apply a different solution on the back of the film. UV curing and lamination are available for applications requiring the application of an adhesive layer to the backside of the film.

### Window Film Coating Capabilities:

- Precision, multilayer coating
- Clean room to meet stringent optical and cosmetic requirements
- 100% automated optical inspection
- Thickness uniformity within  $\pm 5\%$
- Thermal and UV curing
- In-line lamination
- On-site mixing of the formulation(s)
- Tandem coating of backside adhesives or optical clarity layers

### Process Development Advantages:

- Product development and commercialization expertise
- Established relationships with substrate/chemical suppliers

### Custom Coated Window Film Examples:

- Thermochromic films
- Electrochromic films
- Photochromic films
- Architectural windows
- Privacy windows
- Switchable rearview mirrors
- Optically clear adhesives
- Anti-glare, anti-reflection coatings



### ABOUT CARESTREAM

#### Precision Multilayer Coating Partnerships

Building on more than 100 years of precision multilayer coating leadership, Carestream applies aqueous and solvent coating proficiency at bench, pilot and production-scale manufacturing for optimal product design, technology integration and manufacturability. Partners leverage Carestream's coating expertise, manufacturing assets and new product commercialization processes to develop precision-coated and cast film applications for a wide range of energy storage, display, medical, optical, electronic and other advanced materials products. Carestream actively seeks growth partnerships, which combine customer product IP and market channels with its high-speed roll-to-roll processing, quality systems and worldwide presence to bring new products through commercialization quickly and efficiently.

For more information, contact 541.831.7374 or [info@tollcoating.com](mailto:info@tollcoating.com) to learn how a Carestream partnership can help bring new and improved window film products through commercialization quickly and efficiently at reduced manufacturing cost.