

PRECISION COATING SMART WINDOW FILMS

Window films are utilized to provide privacy, decoration, and energy and light management. Carestream Contract Manufacturing expertly coats window films for architectural windows, smart windows, sunroofs, rear view mirrors and more.

We work with our substrate and chemical supplier partners to enhance customer-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 have 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 also available – perfect for when an adhesive layer needs to be applied to the backside of the film.

Window Film Coating Capabilities:

- Precision, multi-layer 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 film
- Electrochromic film
- Photochromic film
- Architectural windows
- Privacy windows
- Switchable rearview mirrors
- Optically clear adhesives
- Anti-glare, anti-reflection coatings



ABOUT CARESTREAM

Precision, Roll-to-Roll Contract Coating Services

Carestream builds on more than 100 years of precision coating leadership to develop a wide range of products for energy storage, display, medical, optical, electronic and other advanced materials applications. Customers leverage Carestream's aqueous and solvent coating expertise at bench, pilot and production-scale manufacturing for optimal product design, technology integration and support. Carestream also 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 **Corinne Ladous** at info@tollcoating.com to learn how Carestream's precision roll-to-roll coating and product development services can help economically move your window films from concept to full production.