

Which  
process optimizers  
**Dow Corning**  
efficiency experts  
do you  
technical advisors  
**need today?**  
equipment providers

supply logisticians

possibility expanders

technology innovators

materials suppliers

contract manufacturers

profit generators

custom formulators

application engineers

productivity increasers

confidence builders

equipment optimizers

commercialization accelerators

need fulfillers

analytical testers

vision enhancers

idea stimulators

product developers

scrap reducers

feasibility testers

service providers

Pressure Sensitive  
Solutions

DOW CORNING

INNOVATION , PRODUCTIVITY & PERFORMANCE SOLUTIONS

## Pilot Coating & Application Testing Support

When you think of Dow Corning, you probably think of silicone release coatings and pressure sensitive adhesives. But, there are many ways we can work with you to enhance your business success.

As a silicone pressure sensitive technology leader, Dow Corning possesses pilot coating capabilities and application testing expertise. By taking advantage of these resources, you can reduce the time, risk, and cost involved in developing and producing products for both new and existing applications.

### Types of Support Available

#### *Pilot coating*

- Application of solvent-based, solventless, and emulsion coatings to all commonly used pressure sensitive application substrates; application methods include Mayer rod, direct gravure, and 3-roll offset, reverse gravure, blade over roll
- Roll-to-roll coating; in-line lamination with water based acrylic adhesives (hot melt available soon); multi-zone, multi-temperature curing

#### *Studies and tests*

- Substrate evaluations
- Cure condition evaluations (state of cure/percent silicone extractables)
- Multi-zone oven profile simulations; impact of web temperature/dwell conditions
- Liner performance evaluations
- Impact of substrate, coating conditions, and release coating formulation on release properties
- Release force, release profile, and stability testing in a dynamic setting where multi-roll coating is used
- Dust assessment for paper machine coating
- Anchorage assessment
- Accelerated aging (humidity, temperature) of liner and laminate to test critical performance properties
- Release force and profile evaluations
- Release stability
- Coverage assessment
- Cobb and cake tests for bakery release

**Prototype design** – design and fabrication of prototype samples



AV06579

## Measurable Results

With pilot coating and application testing support from Dow Corning, you can

- Take new products from pilot to scale-up to full production more quickly and cost effectively
- Improve your productivity and throughput
- Reduce your scrap and material waste
- Reduce your operating costs and improve your profitability
- Enhance your product's quality, reliability, and end-use performance
- Improve customer satisfaction

## Total Solutions ... Tailored to Your Needs

Pilot coating and application testing support are only two of *many* ways Dow Corning can help you innovate, grow, and drive down costs. With decades of technological expertise, application know-how, and global industry experience, the Dow Corning team can design a unique solution – comprised of services, materials, or an integrated combination of both – tailored exactly to your needs.

Whether your company is large or small, global or regional, a startup or veteran, Dow Corning Pressure Sensitive Solutions can help you improve your operation and create value for yourself and your customers.

## For More Information

To learn more about the many ways we can help you be more successful in the pressure sensitive industry, visit our web site at [www.dowcorning.com/psi](http://www.dowcorning.com/psi).

## Tell Us What You Need

Contact your Dow Corning representative. Talk to one of our Customer Service Specialists at +1 989 496 6000. Or e-mail us at [paper.industry@dowcorning.com](mailto:paper.industry@dowcorning.com).

Tell us about your objectives for improvement and change, your issues and concerns, the opportunities you want to pursue, and the roadblocks that are standing in your way. We will listen, understand, and work together to create a solution that is exactly right for you.

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Solutions

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