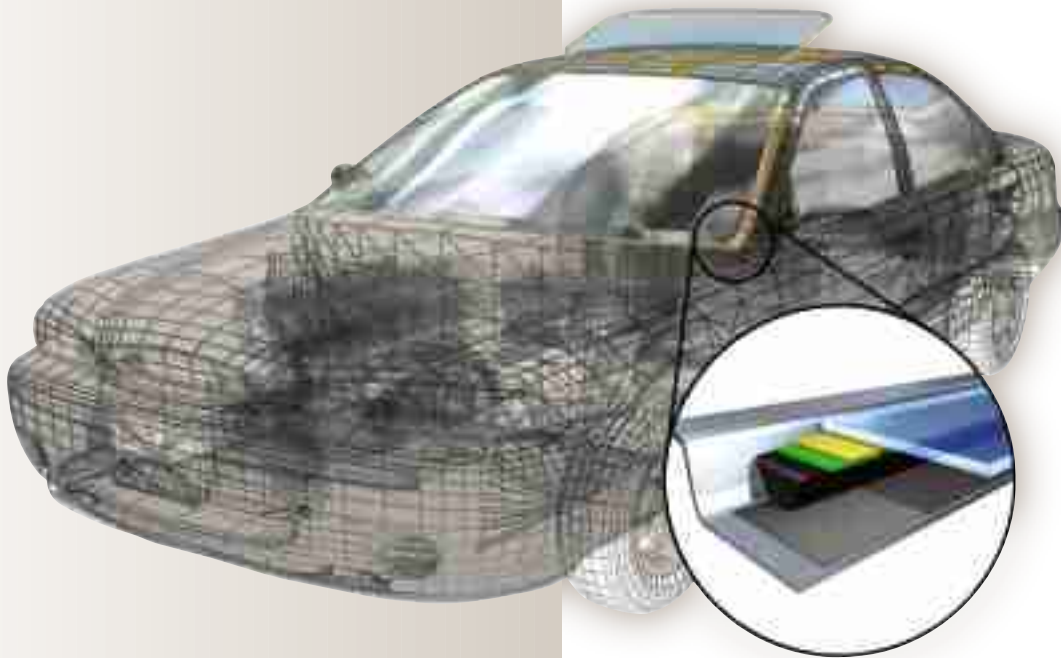


Superior *Strength*, Performance and Safety.



Proven Results... and Years of S u c c e s s

From design through product launch, Dow Automotive has decades of global experience in the formulation, production and application of high-performance adhesive materials. And we continue to develop the technology, systems engineering and product support to satisfy current and future passenger and commercial vehicle programs. The end results are measurable improvements such as vehicle weight reduction and improved environmental performance.

Dow Automotive's global knowledge, in-house engineering, testing and part design proficiencies are coupled with expertise in injection molding, thermoplastic and thermoset polymer science and product development. These capabilities help us custom formulate products for your manufacturing environment from CAD to aftermarket repair.

From great ideas to materials and systems solutions, Dow Automotive can help you address design, development and manufacturing issues. Challenge us—anytime, anywhere.

Dow Automotive. Throughout the vehicle. Throughout the world.

Results



Experience... Delivers P r o v e n Results

At Dow Automotive, we know you can't wait until a vehicle is already in production to discover how well its components—or the entire vehicle—perform. Demand for safety, comfort and reliability continues to drive innovation. So now more than ever, it's important to have resources, materials and processes in place at the earliest stages of vehicle development so you can control costs and build value from prototype to aftermarket.

With the integration of Essex Specialty Products, Inc. and Gurit-Essex AG and its business groups, Dow Automotive has the global reach to benefit the automotive industry worldwide in direct glazing, adhesive bonding, and sealing applications for original equipment manufacturers (OEMs) and the aftermarket. And our experience covers the full range of existing technologies as well as the newest emerging technologies.

In addition, Dow Automotive has the broadest plastics portfolio, especially in thermoset and thermoplastic materials, that can also be specified for interior, exterior and powertrain applications. Furthermore, we are the only automotive supplier to combine an extensive plastics offering with bonding and sealing technologies that provide complete solutions for specialized applications. All these solutions are backed by our design, engineering, testing and validation expertise that supports our customers from design to product launch—and beyond.

Experience

Dow Automotive turnkey solutions

We can:

- Identify need, challenge or opportunity
- Design, engineer, test and validate a solution in house using OEM CAE tools
- Specify, optimize or develop a material
- Handle logistics and transport to your facility in line with your requirements
- Design dispense equipment and manufacturing surroundings relating to process
- Support production start-up
- Manage supply chain
- Offer flexibility in the supply chain to provide all Dow Automotive direct glazing materials
- Maintain your vehicles with OEM-specified products through our involvement in the global direct glazing and body repair aftermarkets
- Provide just-in-time delivery



- GREY – body flange
- DARK GREY – body primer
- BLACK – BETASEAL* direct glazing adhesive
- GREEN – glass primer
- YELLOW – cleaner
- LIGHT BLUE – glass

Innovations... Drive Solutions

You'll find Dow Automotive innovations in every aspect of vehicle design and construction on six continents. Our expertise, developed over more than 30 years in the market, demonstrates our customer-focused practice of taking new ideas, optimizing them into a superior glass bonding material or system, and commercializing the results. And new products are being researched every day.

We can also combine key product technologies to form a single multifunctional material, and we would be happy to discuss your unique application requirements.

Our wide range of specialty direct glazing adhesive products, systems and technologies include the following:

BETASEAL direct glazing/glass bonding systems

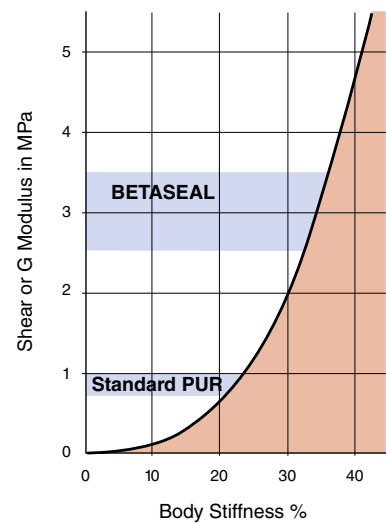
- QUICK FIX
- High viscosity
- Primerless to paint
- Low conductive
- Non-conductive
- High modulus
- Pre-applied
- Primerless to glass

BETACLEAN* glass and body cleaner

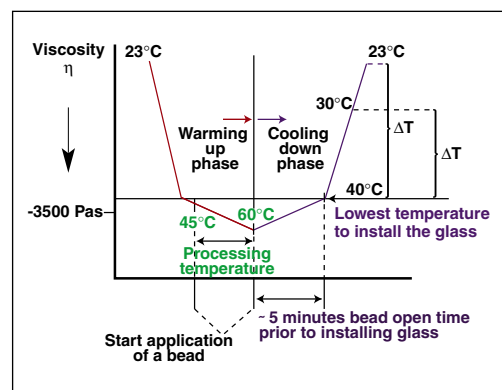
BETAPRIME* glass and body primer

BETAWIPE* activators for glass and plastics

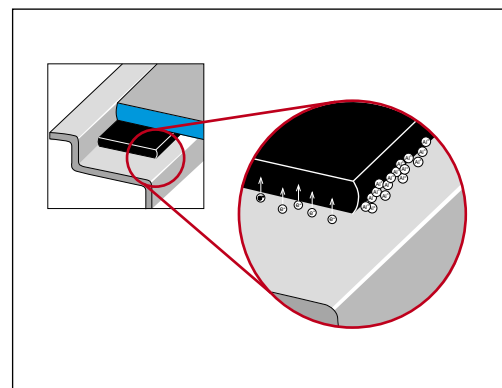
High modulus adhesives are stiffer than "standard modulus" adhesives. This makes the car body more rigid, which reduces noise, squeaks and rattles. The end result is a smoother, safer, more comfortable ride for occupants.



QUICK FIX adhesives are developed with faster production rates in mind—for better assembly efficiencies at the OEM.



Many vehicles integrate antennas into front and rear windshields. Non-conductive adhesive formulations ensure that radio signals are not compromised. This technology also reduces contact corrosion, improving the stability of the bond over time and vehicle safety and durability.

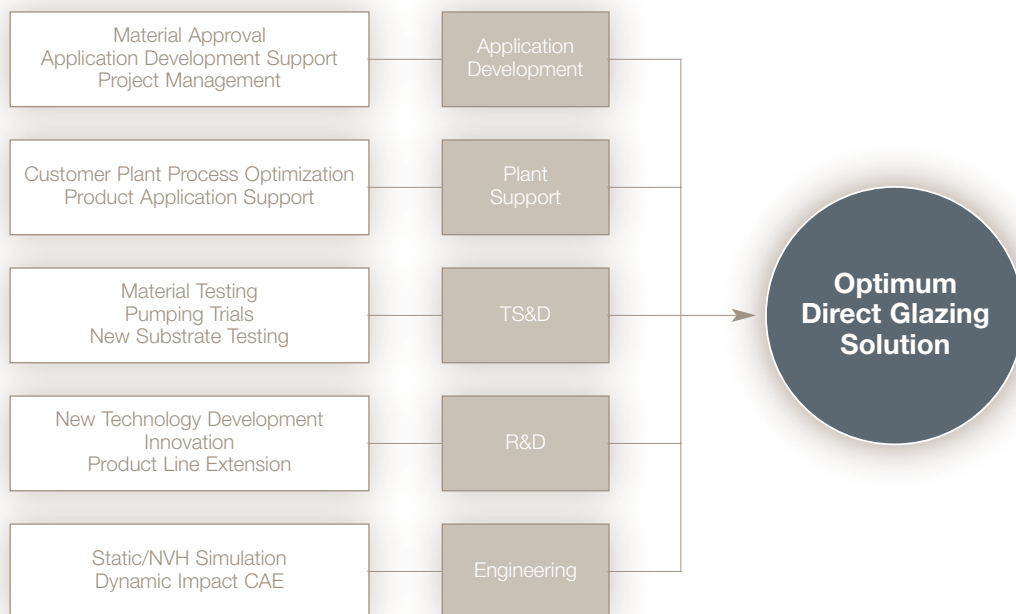


Advantages... Unique Vertical Integration

Dow Automotive is the leading global supplier of materials, technology and support for direct glazing and other automotive adhesive applications. We are fully back-end integrated into polyols and isocyanates, offering you a reliable and secure material supply and significant cost efficiencies.

Access to our R&D teams, new polyols, MDI technologies and emerging materials are readily available. Our experience in polymer material development, specification and application, including plastic bonding, provides the benefit of experience, support and service that extends across the entire vehicle—top to bottom, front to back, and side to side.

Additionally, our testing facilities are equipped with factory-standard robotics that can be programmed to fully replicate most manufacturing conditions. We have the flexibility to create test conditions that accommodate all vehicle types—from mini-passenger vehicles to heavy trucks. And, all our direct glazing systems are tested to meet globally mandated safety requirements.



We listen. We deliver.



Dow Automotive

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