

CORNING

From developing the first light bulb to pioneering optical waveguides for communications transmission, Corning is recognized the world over as the leading innovator in glass and ceramic technology and manufacturing.

Today Corning Means A Lot More Than Glass

Glass is utilized throughout industry to interface with a broad spectrum of other materials. Corning scientists and engineers have designed thousands of different glass formulations to meet these varied demands. Such interactions have led Corning to gain expertise and expand into many new areas including plastics.

The acquisition of U.S. Precision Lens in 1986 especially increases Corning's efforts directed towards helping the automotive industry meet the challenges of tomorrow.

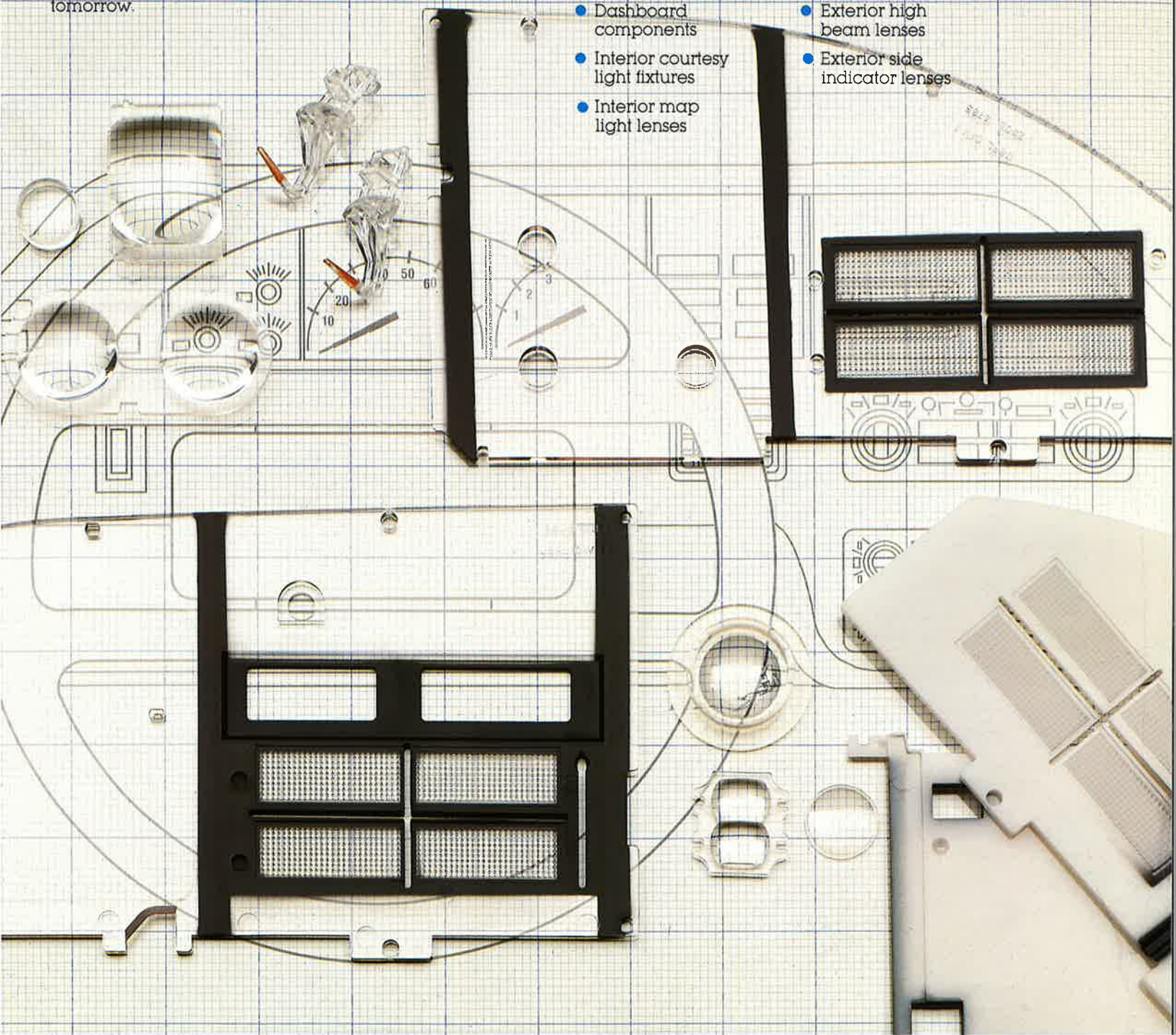
U.S. Precision Lens Automotive Components

Plastic optics offer the advantage of incorporating spacers, mounting brackets and flanges into a single piece to eliminate parts and simplify assembly procedures which often cost more than the lens itself. Our engineers can assist you in designing components that will maximize utility and minimize your costs.

We Listen

To succeed, new products must answer a market need. For Corning, that means constant interaction with customers . . . listening to your needs and responding accordingly. We're ready right now to listen to your needs for specialty optical lighting:

- Dashboard components
- Interior courtesy light fixtures
- Interior map light lenses
- Exterior high beam lenses
- Exterior side indicator lenses



Plastic Automotive Components

U.S. Precision Lens and Corning present a wide variety of capabilities to provide you with the solutions to your most exacting lighting problems. Like Corning, USPL is dedicated to research and development. This has made USPL the largest manufacturer of non-ophthalmic plastic optics in the world. Let us show you what we can do for you.

Materials

The three principal plastics used in optical applications are acrylic, polystyrene, and polycarbonate.

Acrylic is by far the most popular because it has the best combination of transmission, scratch resistance, and light stability.

Polystyrene is lower in cost than acrylic but falls short in some areas and is less stable.

Polycarbonate is virtually unbreakable and has excellent temperature resistance. Of the three, polycarbonate has the poorest scratch resistance and is the most difficult to process.

There are other plastic materials which have use for special applications. Trust us to select the material best suited to your needs.

Design and Tooling

Precision plastic optics can only be manufactured by using precision optical tooling that faithfully reproduces designs. Fabricating our own optical tooling is a vital part of our technology. In addition to having extensive conventional toolroom

machinery at the disposal of our experts, we have created a number of unique devices for specialized needs. Nowhere in the optics industry is the combination of optical engineering and craftsmanship more important.

Integral Optics

One of the main advantages of using plastic optics is that spacers, mounting brackets and flanges can be integrally molded with the lenses. This provides tremendous cost saving advantages . . . and our engineers can help you realize these benefits.



Mounting and Assembly

Because of optical tolerance limits, mounting and assembly are often as important as lens quality. Many of our customers believe it makes sense to have our experts perform these functions and deliver complete optical assemblies.



Coating

Although coating is not required for most plastic optics, we offer in-house magnesium-fluoride and multilayer coating for antireflection characteristics. We also maintain close relationships with firms specializing in exotic multilayer and antiabrasion coating.

Total Quality Commitment

All Corning employees, from plant floor to laboratory to executive office, take part in a Total Quality system that embraces both products and individual performance to ensure that our customers receive the highest quality service and products.

Imagine what we can do together

U.S. Precision Lens has the technology and experience to solve your toughest lighting problems. Together with Corning, we have expanded our horizons. Let us help expand yours.



The precision plastic optic shapes are unlimited in design to meet your requirements.

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