

R-CAST™ ACRYLIC  
**ARCHITECTURE**



**Reynolds**  
POLYMER TECHNOLOGY, INC.  
[www.reynoldspolymer.com](http://www.reynoldspolymer.com)

*Way Beyond Ordinary.*





Mandalay Bay, Hotel Lobby Aquarium, Las Vegas, Nevada

*Reynolds Polymer Technology, Inc., the world leader in the manufacture and installation of unique acrylic structures, brings cutting-edge acrylic design options to the resort, casino and dining industry. Advanced R-Cast™ technology combined with experience in building some of the world's most challenging structures makes Reynolds Polymer Technology the number one choice for architects and designers looking to create stunning designs.*



On the cover: Mr. Chow Restaurant  
Seoul, South Korea

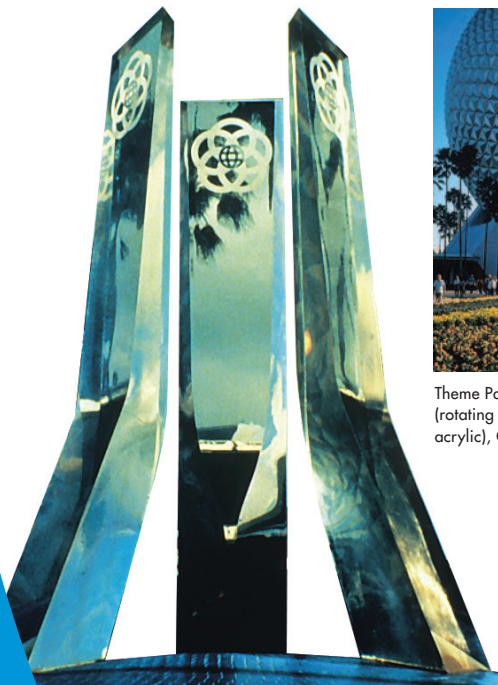
## Why Use R-Cast™?

R-Cast™ is Reynolds Polymer Technology's high performance cast acrylic. R-Cast™ is used to provide a safe, beautiful, crystal-clear view. The R-Cast™ technology provides strong, durable structural acrylic which can be bonded, formed and machined into virtually any shape and size. The optical clarity is unmatched and it is the perfect material for precision installation, ease of maintenance, and a lifetime of beauty.

When artist William Pye looked for a medium to enhance his sculptural concept (see vortex on cover), he chose R-Cast™. The material "enabled Pye to extend his sculptural language and to explore more ways in which to challenge the wayward element of water."

Likewise, when the developers and architects of the City Quartier DomAquaree in Berlin, Germany wanted to create the world's largest and most unusual cylindrical aquarium, they turned to RPT for design assistance, engineering and fabrication. The acrylic of the seven story AquaDom aquarium stands 52 feet (15.8 meters) by 36 feet (11 meters) in diameter. The cylinders are constructed of 41 separate R-Cast™ sheets totaling over 150 tons of acrylic. Many of the R-Cast™ panels are 8 inches (203 mm) thick and had to be fabricated and bonded at the project site. This incredible aquarium holds in excess of one thousand tons of salt water and is the home of over 2,500 fish.

Reynolds Polymer Technology's global manufacturing facilities produce crystal clear R-Cast™ using only the strictest quality standards. With ground-breaking designs, Reynolds Polymer Technology is known throughout the world for quality and innovation.



Theme Park, Monolithic Sculpture  
(rotating colored light shines through acrylic), Orlando Florida



Mr. Chow, Restaurant, Seoul, South Korea



Signage,  
Multiple  
Locations,  
Globally

Some key features of R-Cast™ include:

**Weatherability**

R-Cast™ material is resistant to discoloring from harsh outdoor exposure caused by harmful UV rays and comes with our exclusive 10 year warranty. Unlike other transparent plastics, the physical properties of R-Cast™ do not degrade when submerged in a water environment.

**Optical Clarity**

R-Cast™ is a crystal clear optical material that does not exhibit the green tint associated with laminated glass. R-Cast™ material has a light transmission greater than 92% when tested per ASTM D-1003.

**Fabrication and Custom Castings**

R-Cast™ can be custom cast or formed into various architectural shapes. R-Cast™ material can easily be machined and fabricated. Surface textures can be supplied and RPT can provide R-Cast™ in custom colors when required.

**Value Engineering**

RPT engineers work together with architects and interior designers to provide an incredible viewing experience, cost-effectively. General contractors rely on RPT experience to foresee and avoid on-site problems that may arise with each unique project.



AquaDom Aquarium at the Radisson Hotel-Berlin, City Quartier  
DomAquarée, Berlin, Germany





William Pye Fountain, UK

## R-Cast™ Enables Innovative Design

The versatility of R-Cast™ acrylic provides an ideal medium for innovative design. Reynolds Polymer Technology's focus on value engineering has created extraordinary, yet cost-effective acrylic designs.

R-Cast™ imparts a message of quality, whether used as a structural wall or as a display piece.

R-Cast™ is ideal for architectural elements, artistic applications, as well as skylights, water retaining glazing and signage applications. The quality of R-Cast™ products in combination with a strong engineering department and innovative design team have created what others have said could not be done. With R-Cast™ the possibilities are endless.



William Pye Fountain, UK

“You’ve proven  
once again to be  
‘artists in acrylic’.”

– Walt Disney Imagineering

Nakatchafushi Resort  
Male, Maldives

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- Walt Disney  
World, Epcot  
Orlando, Florida
- Walt Disney World,  
New Tomorrowland  
Orlando, Florida
- CNN/Time Warner  
New York, New York
- Apple  
Multiple Locations, Globally
- Burj Al Arab  
Dubai, UAE
- The Radisson Hotel  
Berlin, Germany
- Mirage  
Las Vegas, Nevada
- Mandalay Bay  
Las Vegas, Nevada
- Dubai Creek Golf  
and Yacht Club  
Dubai, UAE
- Reno Hilton  
Reno, Nevada
- Oriental Hotel  
Bangkok, Thailand
- Silverton Casino  
Las Vegas, Nevada
- Caesars Palace  
Las Vegas, Nevada
- Club Regent  
Winnipeg, Canada
- Atlantis  
Paradise Island, Bahamas
- Harrah's Casino  
Atlantic City, New Jersey
- Wynn Las Vegas  
Las Vegas, Nevada
- Bellagio: Cirque  
du Soleil "O"  
Las Vegas, Nevada
- The Tubkaak Resort  
Krabi, Thailand
- Iberostar Paraiso  
Lindo Hotel  
Cancun, Mexico
- Mr. Chow  
Seoul, Korea
- Seaham Hall Hotel  
and Serenity Spa  
Sunderland, England

