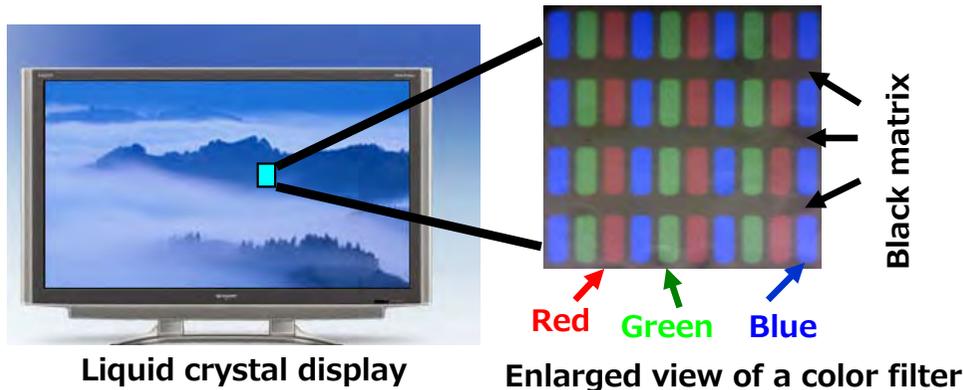


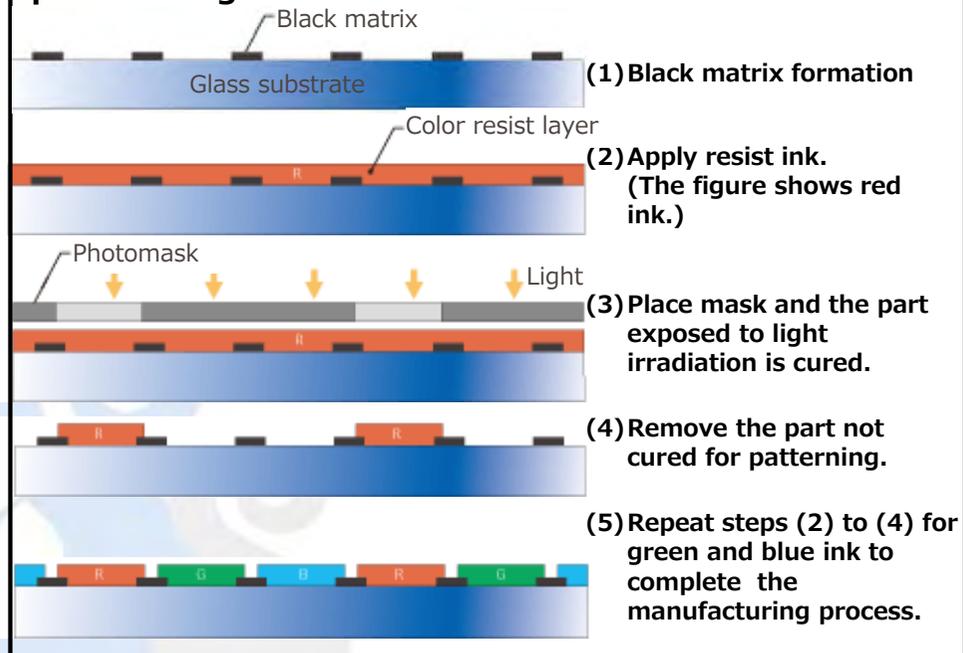
## Product Example

### ● Binder resin for color filters

Contributing to realizing high-definition LCD.



### Example of color filter manufacturing process using photocuring reaction.



## Our technologies

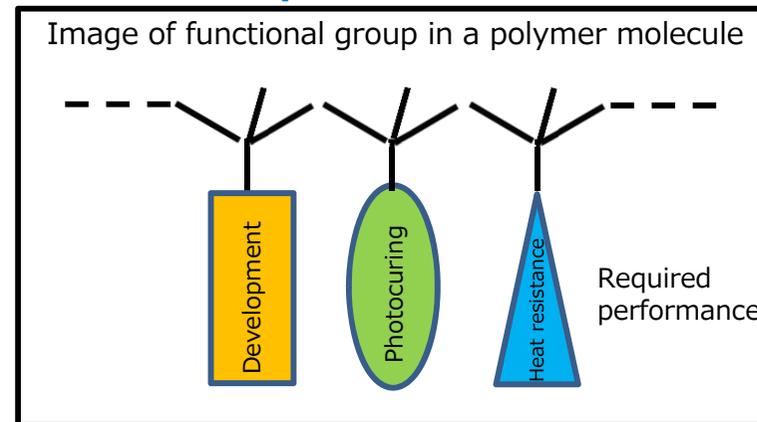
### ■ Polymer design technology

Providing photocuring and thermosetting resins with various characteristics

Developability, heat resistance, solvent resistance, flexibility, high refractive index, adhesion, optical transparency, dispersibility, etc.



### Polymer design meeting the required performance



### ■ Family of products constituting Ripoxy™ and examples of applications

- Epoxy acrylate resin  
Applications: Solder resist, various paints, dicing tape
- Acrylic resin  
Applications: Color filter resist, semiconductor resist
- Urethane acrylate resin  
Applications: Adhesive for optical use

# Synthetic Resin Emulsion

~ Polysol™ ~

## Product Example



Adhesive for tapes



Adhesive for building materials



Fiber processing resin



Paint binder for exterior materials

## Our technologies

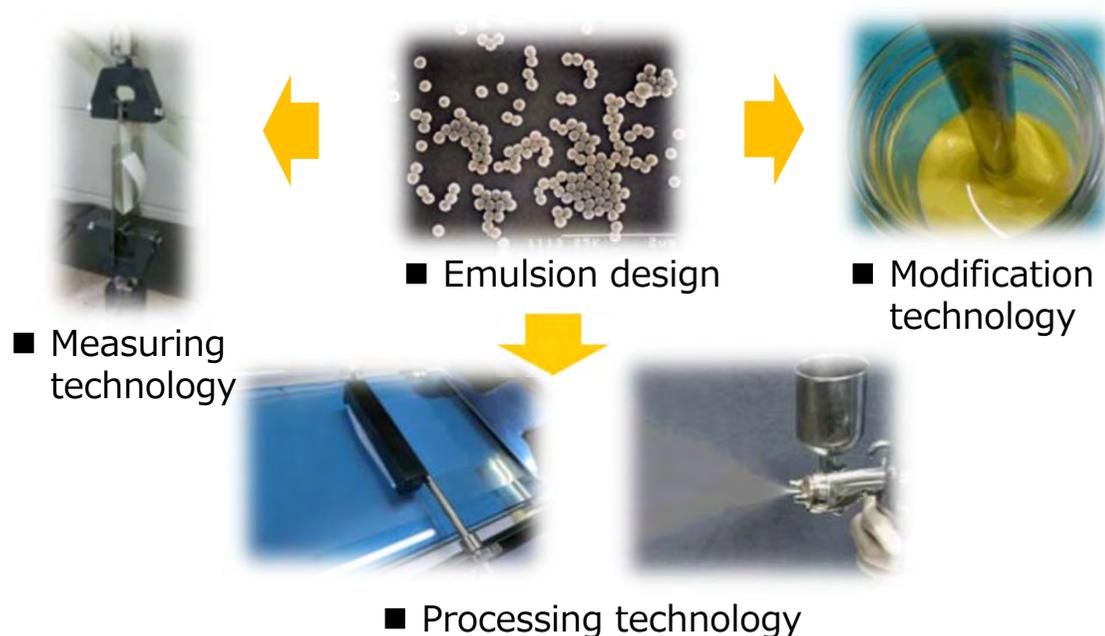
We optimize the synthetic resin emulsion "Polysol™" to suit various applications.



Synthetic resin emulsion

**Polymer design technology**  
(Acrylic, vinyl acetate, ethylene-vinyl acetate)

**Morphology control technology**  
(Particle diameter, particle shape, heterophase structure)



## Product Example



Chemical tank



FRP waterproofing



Resin concrete



Pipe lining



Floor material



Heat-proof paint

## Our technologies

### ■ Synthesis technology

With a focus on unsaturated polyester resin, vinyl ester resin, and urethane-acrylic resin, we own resin synthetic technology meeting such requirements as flexibility, hardness, high strength, and high heat resistance. We can also develop new resin systems.

### ■ Compounding technology

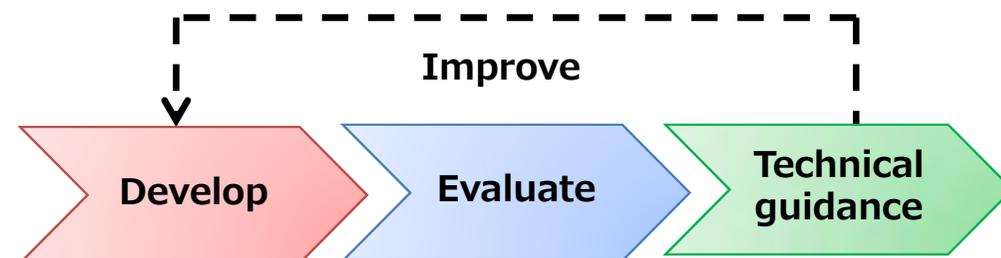
While considering the final usage environment and purpose, we can propose usage methods such as compounding additives, including fillers, curing agents, and accelerators, while also drawing up construction specification proposals, for example.

### ■ Physical property evaluation

We can evaluate the basic properties of products and make various measurements while considering the actual usage conditions.

### ■ Technical guidance

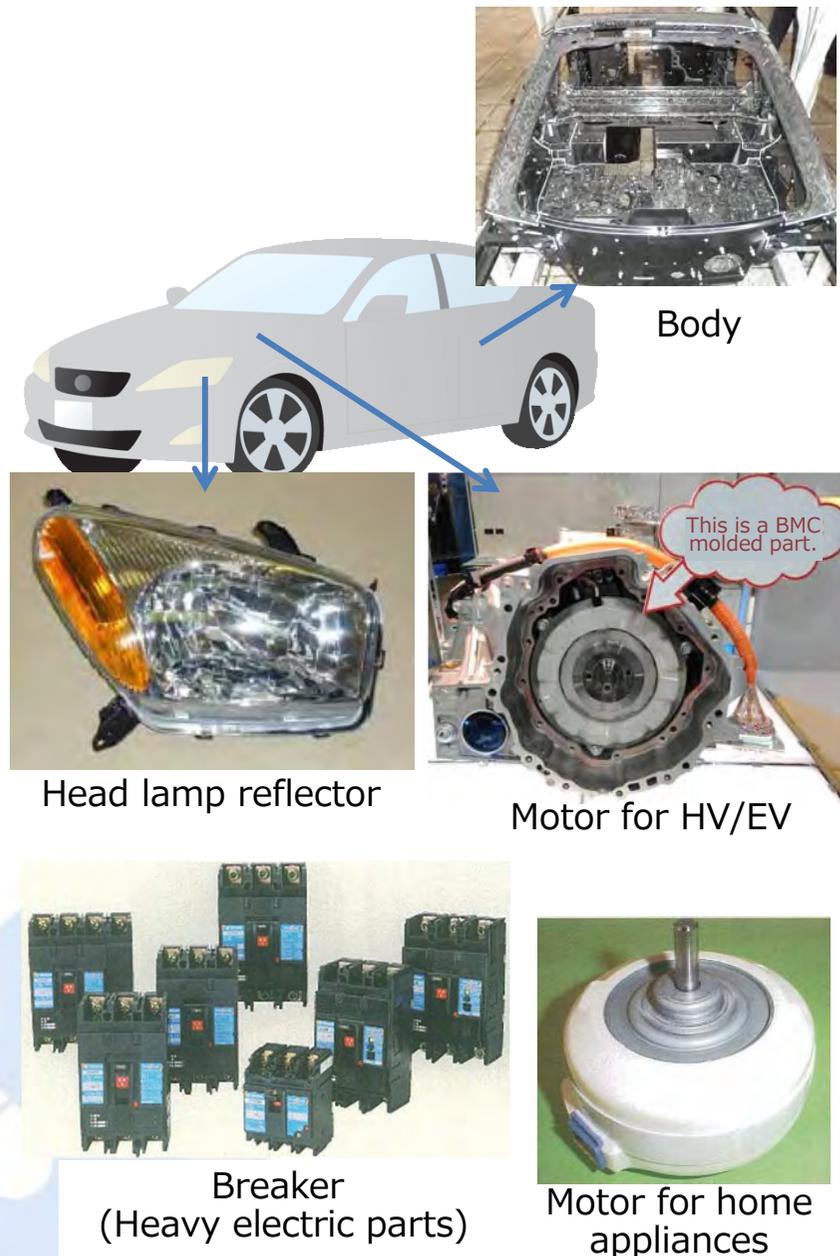
To prevent troubles when the products are used, we can attend and provide technical guidance as required when the products are used. If any trouble arises, we will study countermeasures.



# Molding Compounds

~Rigolac™ molding compounds~

## Product Example



## Our technologies

### ■ Formulation technology

We provide optimally formulated thermosetting molding materials that meet customers' requirements.



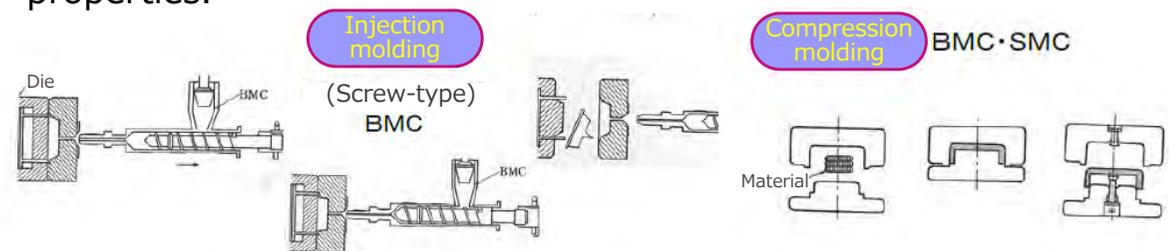
BMC (Bulk Molding Compound)



SMC (Sheet Molding Compound)

### ■ Moldability evaluation technology

We own various molding machines and can mold prototypes and will propose molding conditions that optimize the physical properties.



### ■ Physical property evaluation technology

We can evaluate various physical properties of molded parts in-house, such as mechanical properties, electrical properties, and chemical resistance.

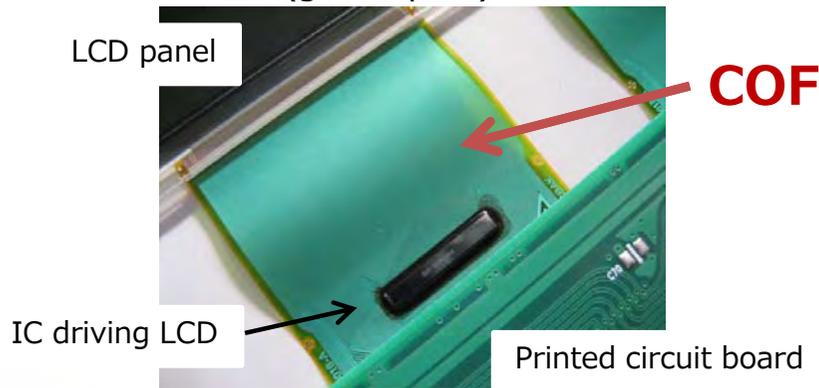
## Product Example

Permanent insulating layer for high precision circuits (COF: Chip on Film) mounted with IC driving LCD.

Taking advantage of its excellent insulation reliability and durability, the film improves the image quality of LCD TVs and smartphone LCD panels.

**Achieving high resolution, downsizing, long life, and low price**

Product Example: insulating film of COF (green part)



High image quality LCD TV

## Our technologies

We can design functional polymers that satisfy various required characteristics according to customers' demands, and also design ink and paint products that adapt to the customer's process by using formulation and dispersion technologies.

### ■ Functional resin design technology

- High insulation properties
- Flexibility
- High durability
- High reliability
- Reactivity
- Toughness

### ■ Formulation technology

- Process compatibility design
- Printability
- Curability control

### ■ Mixing/dispersion technology

- Dispersed particle size control
- Contaminant management
- Stable quality



High-performance insulating ink for COF