

# PLATABLE COMPOUNDS

Customized Thermoplastics For A Variety Of Finishing Operations

## Quick Information

- ▶ Eliminate expensive and time consuming steps associated with plating metals
- ▶ Produce large quantities at a lower cost than metal
- ▶ Extending product life and aesthetics

Imagine a thermoplastic compound that can be finished to look and feel like polished metal. One that offers significant advantages over metal, including increased design freedom and flexibility, and lowered processing costs. At RTP Company we not only imagined it, we made it a reality.

Plating thermoplastic compounds eliminates expensive and time-consuming steps associated with finishing metals. In some cases, by elevating the specific gravity of the compound with heavy additives, the part achieves the weight and feel of metal, while retaining the design freedom and flexibility of plastic.

RTP Company can develop thermoplastic compounds for use in plating, vacuum metallizing, powder coating and other finishing operations. Platable Compounds are individually developed for a variety of plating processes. They are designed to promote adhesion between the plastic substrate and the metal plating.

Platable Compounds are colorable; the compound can match the base color of the plated finish, thereby hiding scratches and marring. In all cases, they offer sufficient heat resistance and dimensional stability to prevent warping in some high temperature plating environments. When the end-use application requires temperature changes, these materials can be designed to match the CTE of the metal, ensuring long-term adhesion.

Platable Compounds are ideal for applications in automotive, cosmetic, sporting goods and plumbing. Their modifiable dielectric properties work well in injection molded antenna applications. In the communication and electronics industries, plating can provide essential EMI/RFI shielding.

Platable Compounds from RTP Company.... another innovation from the leader in specialty compounding.

# PLATABLE

### World Headquarters:

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The Leader in Specialty Compounding

### Manufacturing Facilities:



Winona, MN  
South Boston, VA  
Beaune, France  
Fort Worth, TX  
Indianapolis, IN  
Singapore

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## RTP Company Platable Resin Systems

RTP Series	Polymer Type
100	Polypropylene (PP)
200	Nylon 6/6 (PA)
600	Acrylonitrile Butadiene Styrene (ABS)
900	Polysulfone (PSU)
1000	Polybutylene Terephthalate (PBT)
1300	Polyphenylene Sulfide (PPS)
1400	Polyethersulfone (PES)
2100	Polyetherimide (PEI)
2200	Polyetheretherketone (PEEK)
3400	Liquid Crystal Polymer (LCP)
4000	Polyphthalamide (PPA)
4400	Nylon, High Temperature (HTN)
4600	Syndiotactic Polystyrene (SPS)

## Product Development Contact

Visit RTP Company's website for specific data sheet information or contact:

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## RTP Company Standard Platable Compounds



This silver grip adjustment lever shines like metal, but is actually an electroplated polypropylene specialty compound from RTP Company. The part is produced in large quantities at a lower cost than metal, and with very low scrap. Using the RTP 100 Series compound eliminates expensive and time consuming finishing steps associated with metal. Polypropylene was selected for its glossy finish that carries through to a smooth and shiny plate. It has good chemical resistance to solvents and grease, and is sufficiently resilient to make assembly easier. Accelerated weathering tests proved the thin metal layer has excellent long-term adhesion to the specialty compound.

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