

## Insultemp©

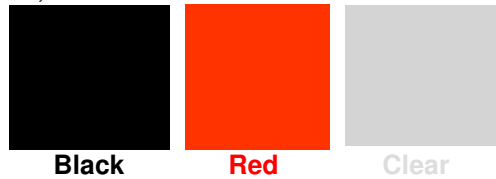
## Electrically Insulating Technology

Additive Technology for Enhancement of Electrical Properties

### Insultemp© Product Information Sheet

Insultemp is a monomer blend synthetic rubber engineered compound to provide electrical insulation properties including excellent dielectric resistance. Like all RP Tempering™ compounds it is very fast drying, cost effective and easy to apply. This product is suitable for high volume production use and can be applied by brushing, spraying (aerosol) or injection.

Brush on and injectable compound colors are available in Red & Black with stock container sizes of 4oz, 1 gallon and 5 gallon. Aerosol Spray can colors are available in Red, Black & Clear with stock 12oz cans.



Reduces vibration with its viscoelastic dampening properties and reduces the chances of terminals and other connections coming loose. Demonstrates excellent resistance to alkalis, moisture, water, acids and will not degrade or dry-out even when exposed to extreme environmental conditions.

RP Tempering™ Technologies and Patented Engineering Techniques were developed to enhance Rapid Manufacture parts made from SFF systems. SFF technology presents OEM's with an opportunity to create and design geometric pre-engineered shapes within the wall of the physical part. RP Tempering™ internal wall geometry technology and additive materials science will enhance SFF parts either in combination or individually to include: Mechanical Properties, Electrical Properties, Thermal Properties and Chemical & Environmental Resistance Properties.

**Please see the Insultemp© Technical Data Sheet for test result details on all Electrical Properties, Physical & Typical Properties. The dielectric strength is 1400 v/mil (volts per 1/mil).**

#### Electrical Insulation Enhancement Opportunities:

- Dimensionally thinner coats of Insultemp© can be applied when compared to competitive coating and the same 50kv result.
- RP Tempering™ patented engineering technique, if used, can reduce your part thickness by 70% plus when compared to applying the Insultemp© on the outside of the part geometry. This engineering technique teaches us to create supported cylindrical voids at 40% to 55% of the total wall thickness and core out most of the internal wall area in the SFF part. Next Insultemp© is injected into the voids backfilling the internal geometry. Insultemp© will achieve the same insulating properties as applying the materials to the outside wall geometry. Benefits:
  - NO thickness will be added to the physical part design.
  - Part will weigh less
  - By doing this tempering technique we can reduce the size of a part
  - Natural protection of the insulating material from abrasion
  - Increase impact strength
  - Increase flex strength
  - Enhance part torque durability.

Par3 Technology, Inc  
Corporate Office  
1 Jefferson Ave.  
Cookeville, Tennessee 38501  
Phone Number: 931-528-8578  
Website: [www.Par3Technology.com](http://www.Par3Technology.com)  
Email: [Info@Par3Technology.com](mailto:Info@Par3Technology.com)

Par3 Technology, Inc  
Subsidiary: Manufacturing by Design, Inc.  
RP Tempering™ & R&D Site  
10816 Preston Drive  
Indianapolis, Indiana 46236  
Phone Number: 317-557-5018  
Website: [www.RPTempering.com](http://www.RPTempering.com)  
Email: [Info@RPTempering.com](mailto:Info@RPTempering.com)

Par3 Technology, Inc //Business Support  
Total C S Team, Inc. or "TCST"  
RP Tempering™ Customer Support Site  
Southern, California  
Phone Number: 661-713-5515  
Website: [www.TotalCSTeam.com](http://www.TotalCSTeam.com)  
Email: [Sales@TotalCSTeam.com](mailto:Sales@TotalCSTeam.com)

**Protodag Teknoloji Ürünleri Ticareti** Adres  
or Protodag Technologies //Master Distributor  
The Temperman Initiative  
RP Tempering™ Business Unit for all of:  
Europe – Turkey - Spain  
19 Mayıs Cad. Al Karanfil Sok.  
No:5/8 Sisli Istanbul / Turkey  
Tel: +90 212 296 93 95  
Fax: +90 212 296 93 95  
e-mail: [Info@temperman.com](mailto:Info@temperman.com)  
Web: [www.temperman.com](http://www.temperman.com)