



# RADEL® R PPSU PRECOLORS

FOR AUTOCLAVE AND HIGH HEAT APPLICATIONS

- ▶ Small production lots available starting at 110 lbs (50 kg)
- ▶ ISO 10993-1 Biocompatibility statement available for most colors
- ▶ Fixed formulation service available

## ADDITIONAL BENEFITS

- Select from palette of standard colors or custom match to your specification
- Available from our global network of production sites
- 15-day lead times for color matches and production orders
- Range of radiopaque fillers available
- Sample sizes available

Imagine being able to order small and medium-sized lots of precolored Radel® R polyphenylsulfone (PPSU) and Udel® polysulfone (PSU) compounds and having them shipped quickly from any of RTP Company's worldwide facilities to anywhere around the globe.

Under a trademark agreement with the Solvay Specialty Polymers, RTP Company compounds industrial and medical grade precolored Radel® R PPSU and Udel® PSU resins globally using the Solvay trademarks.

RTP Company has developed formulations to color Radel® R resins for use in reusable medical devices, medical packaging, pharmaceutical applications, and disposable medical products. We offer a palette of standard colors as well as custom-colored products.

OEMs and processors developing medical devices can select from the standard colors or have RTP Company create a custom matched color. Radel® R resins are also available with radiopacifiers, glass and carbon fiber reinforcements, internal lubricants, and conductive additives.

### Small Lot Availability

Commercial production quantities of Radel® R precolored PPSU compounds are available globally in small lot sizes starting at 110 lbs (50kg) releases with an average of 15 day lead times.

RTP Company has developed medical grade formulations to color Radel® R resins for use in reusable medical devices, medical packaging, pharmaceutical applications and disposable medical products. We offer a palette of 12 standard colors as well as customer-colored products. Products made with our medical grade colorants are available with a Statement of Biocompatibility with testing performed for:

- Part 5 - Cytotoxicity
- Part 10 - Irritation and delayed type hypersensitivity
- Part 11 - Systemic toxicity

Note: *The colorants on which RTP Company has performed biocompatibility testing were made using a proprietary base resin carrier system. The ISO 10993-1 biocompatibility testing was performed by NAMSA, an FDA GMP certified independent laboratory.*

*Radel® and Udel® are registered trademarks of Solvay Specialty Polymers, LLC*



RTP Company Corporate Headquarters • 580 East Front Street • Winona, Minnesota 55987 USA  
website: [www.rtpcompany.com](http://www.rtpcompany.com) • email: [rtp@rtpcompany.com](mailto:rtp@rtpcompany.com) • Wiman Corporation • +1 320-259-2554

#### TELEPHONE:

**U.S.A.**  
+1 507-454-6900

**SOUTH AMERICA**  
+55 11 4193-8772

**MEXICO**  
+52 81 8134-0403

**EUROPE**  
+33 380-253-000

**SINGAPORE**  
+65 6863-6580

**CHINA**  
+86 512-6283-8383





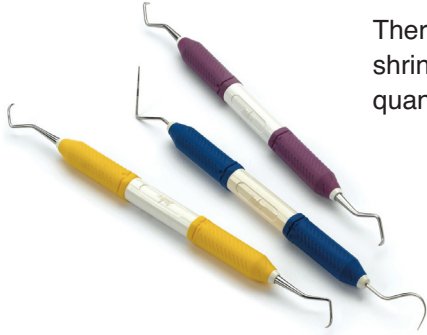
## RADEL® R PPSU PRECOLORS

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### Custom Compounds

OEMs and processors developing medical devices can select from the standard colors or have RTP Company create a custom matched color. Radel® R and Udel® resins are also available with radiopacifiers, glass and carbon fiber reinforcements, internal lubricants and conductive additives.

### Speed To Market



There is a race to speed product development, and the life cycle of new products is shrinking. You can win this race with color matched precolored resins and production quantity orders delivered in days from RTP Company.

- 15 working day turnaround for custom color matches
- 15 working day lead time for production orders
- Statement of ISO 10993-1 biocompatibility available upon request
- Change Management Services - You can request that your formulation be held in a fixed status, and not allow any changes to the formulation recipe without notification to you. Change controls help you protect your regulatory body approved medical devices testing. Formulation control must be requested at the time the color match is requested.

### Radel® R PPSU Overview

Radel® R polyphenylsulfone is an incredibly tough, transparent thermoplastic that offers exceptional hydrolytic stability and excellent resistance to chemicals and environmental stress cracking. With a heat deflection temperature of 207°C (405°F), it can withstand more than 1,000 cycles of steam sterilization without any significant loss of properties. It is inherently flame retardant and offers good electrical properties.

| Resin Grade | Melt Flow* | Description                                   | Base Color           |
|-------------|------------|---|----------------------|
| R-5000      | 17.0       | General purpose injection and extrusion grade | Transparent          |
| R-5100      | 17.0       | General purpose injection and extrusion grade | Opaque               |
| R-5500      | 15.5       | Lower flow extrusion grade                    | Opaque & Transparent |
| R-5800      | 25.0       | Higher flow extrusion grade                   | Transparent          |

\*Melt Flow at 689°F (365°C), 5.0kg, g/10 min

### Radel® R PPSU Standard Precolors:

| Color | Product Description              | Color | Product Description            |
|-------|----------------------------------|-------|--------------------------------|
|       | EMD-32976 RADEL R-5100 NATURAL   |       | EMD-481125 RADEL R-5100 ORANGE |
|       | EMD-888400 RADEL R-5100 LT GRAY  |       | EMD-43798 RADEL R-5100 YELLOW  |
|       | EMD-888401 RADEL R-5100 MED GRAY |       | EMD-66642 RADEL R-5100 GREEN   |
|       | EMD-888402 RADEL R-5100 DK GRAY  |       | EMD-703433 RADEL R-5100 BLUE   |
|       | EMD-803494 RADEL R-5100 BLACK    |       | EMD-780734 RADEL R-5100 VIOLET |
|       | EMD-55752 RADEL R-5100 RED       |       | EMD-900214 RADEL R-5100 BROWN  |

## RTP Company: Your Global Compounder Of Custom Engineered Thermoplastics

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