

RADEL® PPSU – The Quadrant Life Science Grade (LSG)

Material solutions for the Medical Industry



TRENDS

In addition to requiring extreme resistance to steam and chemical sterilisation, today's medical device designs need exceptional physical performance that can help deliver the extended product life that value conscious users demand.

QUADRANT ANSWERS

The RADEL® PPSU LSG material by Quadrant is an outstandingly tough engineering plastic with a temperature of deflection under load of about 205 °C, excellent chemical resistance, dimensional stability and the ability to withstand more than 1,000 cycles of steam sterilisation without significant loss of properties. It is highly resistant to cleaning agents, disinfectants and various solvents, as well as to gamma radiation.

CUSTOMER BENEFITS

Quadrant delivers unique RADEL® PPSU LSG machining stock which meets biocompatibility requirements per ISO 10993-5. This offers the designer increased safety, approval facilitation, as well as reduced cost and time to market. Many standard colours including blue, grey, natural, black, red, green, brown, rust and yellow are offered as rod and plate. Various combinations of shape sizes provide manufacturers an ideal yield with minimal waste.

Quadrant produces machinable advanced engineering materials such as KETRON® PEEK, RADEL® PPSU, ULTEM® PEI and PSU as rod, plate or tube and manufactures finished parts from its full range of materials. Our broad product range and knowledgeable application development team can support your use of our pre-certified, biocompatible Life Science Grades, as well as implantable grade PE-UHMW (CHIRULEN® and EXTRULEN®).



QUADRANT

You inspire ... we materialize®

Properties of RADEL® PPSU LSG by Quadrant

- Superior resistance to common sterilisation techniques compared to other engineering plastics
- Extremely high resistance to repeated steam sterilisation
- High resistance to gamma radiation
- Proven biocompatibility per ISO 10993-5 on stock shapes
- Excellent dimensional stability
- Very high impact strength
- Excellent machinability
- Lot traceability



Typical applications

- Trial implants
- Medical instruments
- Endoscopic equipment
- Radiation therapy and brachytherapy components
- Trays for trauma products
- Biotechnology and laboratory equipment
- Analytical and diagnostic equipment



Available in standard colours

Colour	black	natural (off-white)	blue	green	yellow	grey	brown	rust-coloured	red
Solvay Code	BK 937	NT 15	BU 1027	GN 1140	YL 130	GY 1037	BN 1164	RD 1510	RD 1530

Available as rod and plate. Please consult us for availability of rod diameters and plate sizes. Available also as finished parts.

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Learn more online at www.quadrantplastics.com

Quadrant has extensive product and machining information available online. Our website is a portal to a wealth of technical data and the easiest way to engage our application specialists. Our team stands ready to help offer solutions to your toughest problems.

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