



Proteus® LSG HS PP Quadrant Life Science Grade (LSG)

Material Solutions for the Medical Industry

Market Trends

Uncompromised quality is key in the medical industry. Materials with an excellent cost-performance ratio are the future in a more and more sensitive Medical and Life Science Industry. In addition, proof of biocompatibility and controls are prerequisites for sustainable material qualifications.

Quadrant Answers

Quadrant's Proteus® LSG HS PP (heat-stabilized Polypropylene) exhibits a heat deflection temperature that allows the material to be used in repeated steam and autoclave sterilization cycles. It is highly resistant to cleaning agents, disinfectants and various solvents. Typical applications for Proteus® LSG HS PP include surgical trays, caddies and instrument components.

Customer Benefits

Quadrant's Proteus® LSG HS PP is available as plates. The production process includes a special heat-treatment phase that allows for the higher heat deflection temperature and, thus, improved machinability and dimensional stability. Under the label of Quadrant's Life Science Grades (LSG), Proteus® LSG HS PP shapes are tested and certified for biocompatibility per ISO10993-5. Proteus® LSG HS PP plates are produced from natural homopolymer base resin that is USP Class VI compliant and that meets the food contact code of regulations specified by the FDA. This offers the designer increased safety, approval facilitation, as well as reduced cost and time to market.

Quadrant's Proteus® LSG HS PP - At a Glance

Properties of Proteus® LSG HS PP

- Superior resistance to common autoclave/steam sterilization techniques as a result of the high heat deflection temperature (HDT > 300 °F / 149 °C per ASTM D 648)
- Excellent dimensional stability
- Proven biocompatibility per ISO 10993-5
- Plates produced from natural homopolymer base resin that is USP Class VI compliant and that meets the food contact code of regulations specified by the FDA.
- Excellent machinability
- Lot traceability & material certification
- Available in standard colors: white and black
- Available as plates
- Other colors possible via make to order (MTO) request

Available as plates in white and black.

- Sizes: 24" x 48" (600 mm x 1200 mm)
- Thickness: 1", 1.5", 2" (25.4 mm, 38.1 mm, 50.8 mm)

Quadrant produces machinable advanced engineering materials such as Ketron® LSG PEEK, Quadrant® LSG PPSU, Quadrant® LSG PSU and Duratron® LSG PEI as rod, plate or tube and can facilitate the manufacture of finished parts from its full range of materials. This broad product range and our 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™).

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*: „30 days“ applies to Ketron® PEEK-CLASSIX™ LSG white only.

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