Material solutions for biotechnology and laboratory applications

TRENDS

In today's demanding life sciences market, manufacturers need to stay ahead of therapid advances being made in the biotechnology arena. Parts need to withstand a wide temperature range, tenside cleaning agents, acids and rigorous sterilisation procedures. Dimensional stability is required.

LIFE SCIENCE GRADES PORTFOLIO

Quadrant's plastics are resistant against plenty of commonly used cleaning and handling fluids. They are compatible with most sterilisation methods.
Our Life Science Grades include plastics already compliant with FDA, ISO 10993 or USP guidelines. Type-tested biocompatibility can be key to accelerating development times and cutting costs.

FULL TRACEABILITY

For its LSG-portfolio, Quadrant Engineering Plastic Products also provides full traceability from raw material to stock shape and therefore safety for the customer: every product has a unique batch number referring to all manufacturing data.

We provide high performance plastics as rod, plate or tube for machining or as finished parts. With over 60 years of expertise, our unique service approach provides the platform for bringing your concept to market.

Let Quadrant help you build the perfect medical application.

QUADRANT

You inspire … we materialize®

Get the right material for the job

KETRON® PEEK LSG
parts for bioreactors

Challenges: Bioreactors degrade contaminants in water with microorganisms through attached or suspended biological systems. Possible leaching of substances from the plastic parts used in the bioreactors would impair the results and efficiency of such systems. Cleaning cycles use strong chemicals as well as several sterilisation techniques such as autoclaving or dry heat at 170-180°C.

Solution: KETRON® PEEK LSG has the required mechanical, thermal and chemical properties to perform well in this environment.

Benefits: High and reliable output.

ACETRON® LSG
temperature controlled shaker

Challenges: Flatness and good dimensional stability are required in this application where the shaker is handling the probes for laboratory systems. The basic concept allows heating and cooling to certain temperatures.

Solution: ACETRON® LSG offers the dimensional stability required as well as excellent machinability.

Benefits: Low weight, low cost and long lifetime.

Benefits – the market relies on

Whether you are building the latest bio reactor with human cell cultures, a DNA probe analyser, a device for polymerase chain reactions or a mass spectrometer, we provide the material solution to fit the constraints of your application. Quadrant's plastics are a cost-effective way to replace stainless steel, exhibiting less corrosion, easier machining and cleaning. A short assembly time, less weight and versatile properties add material advantages. Full traceability, consistent quality and technical support form a natural part of our service package. With Quadrant you gain the confidence you need in a highly technical and demanding market.

Learn more online at www.quadrantplastics.com

Quadrant has extensive product and machining resources 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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