



» APPLICATION BULLETIN

VITAL PERFORMANCE

LABWARE & POINT-OF-CARE DIAGNOSTICS

Researchers and healthcare professionals depend on the latest innovations in medical research to help move their work from initial conceptualization to discovery.

Whether you're a medical device manufacturer, molder or contract manufacturer, your goals are likely the same: identifying the critical needs of researchers and medical professionals, and designing components or devices that solve those issues in order to get at the heart of their pursuit—better patient treatments and scientific advances.

It is our objective to assist at the earliest phases of the product development cycle, helping you to make informed decisions about material selection based on your specific application needs and performance requirements. Does your device need to withstand a wide range of temperature variations? Are you looking for shatterproof or

chip-resistant material, or even improved seal integrity? Avient Distribution can help recommend an appropriate material to fit your unique needs, permitting you to be compliant with various regulatory protocols such as ISO 10993 and USP Class VI.

As you work to enable researchers and healthcare professionals with innovative devices, we are here to support you with innovation in polymer science. By carefully considering all polymer options available in the early phases of design, you can improve user functionality and reduce the risk of device failure or costly recalls. With a broad range of medical grade polymers and FDA-approved pre-colored resins available, Avient Distribution is ready to support you from product development and manufacturing efficiencies, to rapidity of supply and beyond.

LOOKING FORWARD TO INNOVATION

Healthcare professionals tend to look to current research for appropriate next steps in the management of serious illnesses and improved patient care. When designing labware and point-of-care diagnostics equipment, you do the same. Every great innovation starts with research and informed decision-making strategies. By enabling researchers with innovative tools, you can help them reach their primary goal: to improve the lives and treatment outcomes of patients.

SECURITY & RELIABILITY

Durable Sealing Performance,
Elastic Recovery, Chemical Resistance

SOLUTION: Thermoplastic Vulcanizate (TPV),
Thermoplastic Elastomers (TPE),
Thermoplastic Polyurethane (TPU)



RELIABLE DISPOSABLES

Shatterproof & Chip-Resistant
Materials for Vials & Tubes

SOLUTION: Polypropylene (PP),
Polyethylene (PE)

COST EFFECTIVE CONTAINMENT

Easy Processing, Secure Supply

SOLUTION: Styrenics, High Density
Polyethylene (HDPE), Polypropylene (PP),
Polyethylene (PE)

MAXIMIZED UTILITY

Reduced Sample Waste

SOLUTION: Low Retention
Additive

AESTHETIC APPEAL

Clean & Customizable Finishes

SOLUTION: Metallic and Custom
Effects, FDA-Approved Masterbatch
Colorants, Pre-Colored Resins

SPARKLING CLARITY

Chemical Resistance,

Impact Resistance, Clarity

SOLUTION: Polymethyl Methacrylate
(PMMA), Polycarbonate (PC), Styrenics,
Copolyester, Nylon (PA)



DESIGN FLEXIBILITY

High-Flow Materials for Components
with Complex Designs

SOLUTION: Copolyester,
Nylon (PA), Polycarbonate
Blends (PC Blends)

DURABILITY

Impact Strength, Chemical
& Flame Resistance

SOLUTION: Copolyester,
Polybutylene Terephthalate (PBT),
Polycarbonate Blends (PC Blends),
Nylon (PA), Rigid Polyvinyl Chloride
(Rigid PVC), Styrenics

PROTECTION

Wire & Cable Flexibility, Chemical
Resistance, Easy Processing,
Toughness

SOLUTION: Polyvinyl
Chloride (PVC), Thermoplastic
Elastomers (TPEs), Thermoplastic
Urethane (TPU), Polyolefin
Elastomers (POE)

STRATEGICALLY DESIGNED TOOLS

FOR PREVENTATIVE HEALTHCARE

Taking a proactive approach to healthcare is not only a recent trend, but it's quickly becoming a necessity. Our comprehensive approach to material selection, product design support and regulatory protocols will help you create the tools that healthcare professionals will depend on to improve patient well-being.

Labware & Point-of-Care Diagnostics Equipment

Nearly every scientific breakthrough begins with hard work and research. Avient Distribution is here to help you enable scientists and healthcare professionals with the tools necessary to improve patient lives.

- Pipettes
- Test Tubes
- Trays
- Funnels
- Vials
- Diagnostic Kits
- Collection Cups
- Plungers & Stoppers
- Lids & Closures
- Septa
- Beakers
- Well Pads



1.844.4AVIENT
www.avientdistribution.com



Copyright © 2021, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.