





Product Selection Guide

FORMERRA HEALTHCARE SOLUTIONS

Labware & Point-of-Care Diagnostics





Labware & Point-of-Care Diagnostics

As healthcare trends shift from reactive treatment to proactive prevention, diagnostic tests aid healthcare professionals and patients in accessing test results more frequently. Due to this, it is critical labware and diagnostics perform with reliable predictability.

If you aim to select the perfect material for rigid and flexible components of your medical devices, you're in the right place.

Formerra can help you solve your toughest application challenges by providing a specialized approach to the latest material technologies. With a dedication to sustainable solutions, technical and logistics expertise and innovative design engineering capabilities, we can help you deliver safe and reliable, industry-leading products to patients, caregivers, and medical professionals alike.



Our Suppliers

In addition to maintaining an effective manufacturing and supply chain operation, you're faced with designing products that must meet strict regulatory and quality assurance standards. At Formerra, we help you achieve these goals with our comprehensive portfolio of leading suppliers, on-time delivery and a host of services focused on helping you succeed.





























Rigid Components

Biotech/Life Sciences, Chemical, Clinical, Environmental, Food & Materials Testing

Applications include:

- Flasks
- Bottles
- Pipettes
- Trays
- Vials
- Lids
- Collection cups
- Beakers
- Test tubes
- Funnels
- · Diagnostic Kits

Acrylics

Rigid Component Solution Needs:

- · Materials compliant with ISO 10993 & USP Class VI, if required
- · Shatterproof & chip-resistant materials
- · Low cost disposables
- · Security of supply
- Chemical resistance
- Transparency
- · Materials that can withstand wide temperature variations

Copolyester, Rigid TPU, PVC & PVC Blends Thick- and thin-walled applications with glass-like appearance; improved toughness and reduced Eastman Eastar", Durastar" & Copolyester weight; chemical resistance to drugs, solvents, lipids, and disinfectants; preserves clarity and exhibits Tritan[™] (Copolyester) almost no color shift after sterilization Rigid Thermoplastic Biocompatible; sterilizable; excellent chemical resistance; bondable to polar substrates like PC; Covestro Texin® (TPU) Polyurethane (TPU) rigid 65 to 80 Shore D grades Excellent chemical resistance; physical integrity after chemical exposure; custom colors available; excellent solvent bonding to PVC Rigid Polyvinyl Chloride (PVC) **GEON Performance Solutions** Resilience[™] HC (PVC) Rigid Polyvinyl Chloride/ABS **GEON Performance Solutions** High temperature resistance; excellent chemical resistance; physical integrity after chemical/cleaner exposure; color branding available; excellent solvent bonding to PVC tubing (PVC/ABS) Geon® HTX[™] (PVC/ABS) PC, PA & PMMA Polycarbonate (PC) Covestro Makrolon® (PC) Rigidity, toughness and clarity Trinseo Plexiglas® Acrylics Clarity; easy processing; BPA free; lightweight; chemical resistance; impact resistance PolyMethyl Methacrylate Easy processing; BPA free; transparency; impact resistance; chemical resistance; lightweight, Trinseo Plexiglas® SG (PMMA) sterilizable by gamma and EtO Acrylics Trinseo Plexiglas® VS-UVT Clarity; easy processing; BPA free; lightweight; UV transparency for diagnostic applications



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High Performance Poly	mers	
Liquid Crystal Polymer (LCP)	Celanese Vectra MT (LCP)	High stiffness, high aspect ratio features, capable of thin wall molding and appropriate for direct tissue contact temperature properties
Styrenic Blends		
Styrenic Blends	Trinseo MAGNUM" (ABS)	Opaque; custom colors; excellent impact and flow; low residuals; ISO 10993 tested
	AmSty STYRON* (GPPS)	General purpose (crystal) polystyrene; good clarity; stiff; easy processing with no pre-drying needed; good heat distortion resistance; excellent gloss, feel and appearance; excellent dimensional stability; sterilizable (except autoclave)
	AmSty STYRON [™] (HIPS)	High impact polystyrene; opaque; impact resistant; easy processing with no pre-drying needed; good heat distortion resistance; glossy to matte surfaces available; excellent feel and appearance; excellent dimensional stability; sterilizable (except autoclave)
	INEOS Styrolution Zylar® & Clearblend® (MBS)	Exceptional toughness; excellent clarity; low specific gravity; no pre-drying needed; excellent thermal stability; superior chemical resistance
	INEOS Styrolution NAS® (SMMA)	Sparkling clarity; color neutrality; good rigidity; easy processing; no pre-drying needed; excellent alcohol resistance
	INEOS Styrolution Luran®SAN	Rigid; heat resistant; outstanding transparency; good overall chemical resistance; superior processing; good scratch resistance
	INEOS Styrolution Styrolux® and K-Resin R (SBC)	Good transparency and excellent toughness; easy and versatile processing; great for adding toughness to styrenic polymer blends
	INEOS Styrolution Terlux® HD (MABS)	Good clarity; good heat and overall chemical resistance; good impact strength; good solvent bonding to PVC; outstanding surface quality
	INEOS Styrolution Novodur® HD (ABS)	Opaque appearance; outstanding chemical resistance; high impact strength; excellent balance of properties; ease of processability; bondable
PP & PE		
	INVISTA" (PP)	
Polypropylene (PP) &	Pinnacle" (PP)	Good clarity; strength; flexible and rigid options; easy processing; good chemical resistance;

Polypropylene (PP) & Polyethylene (PE)

Dow[™] HEALTH+ Polymers[™]

Good clarity; strength; flexible and rigid options; easy processing; good chemical resistance;

Lyondellbasell[™] (PP) & (PE)



Flexible Components Biotech/Life Sciences, Chemical, Clinical, Environmental, Food & Materials Testing

Applications include:

- Caps
- Closures
- Septa
- Well pads
- Stoppers

Flexible Component Solution Needs:

- · Materials compliant with ISO 10993 & USP Class VI, if required
- Automation
- · Seal integrity
- Flow control
- · Improved handling & grip

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TPE, TPC-ET, TPU, TPV	& Flexible PVC	
Thermoplastic Elastomers (TPE)	Avient Versaflex" HC Gasket & Stopper Series (TPE)	Proven HC solutions with hardness ranges 34–59 Shore A; autoclave, radiation and EtO sterilizable; re-sealability; good compression set; low extractables; good overmold adhesion to PP; good low temperature properties
Thermoplastic Polyester Elastomers (TPC-ET)	Celanese Hytrel® (TPC-ET)	Wide range of flexibility, stiffness, and processing options; Shore D between 30–82; BPA-free; excellent flex fatigue and toughness; low temperature flexibility; good chemical resistance; grades with regulatory support available
Thermoplastic Polyurethane (TPU)	Covestro Texin® (TPU)	Biocompatible; soft touch; sterilizable; good chemical resistance; excellent bonding to polar substrates like PC; soft 70 to 90 Shore A grades
Thermoplastic Vulcanizate (TPV)	Avient Versalloy HC Series	Proven HC solutions with hardness range 45–90 Shore A; autoclave, radiation and EtO sterilizable, good compression set, low extractables, bondable to PPg
	Celanese Santoprene" (TPV)	Durable sealing performance; elastic recovery; excellent chemical resistance; compliance with medical standards
Flexible Polyvinyl Chloride (PVC)	GEON Performance Solutions Geon [®] Flexible PVC	Engineered exclusively for the healthcare market; transparent and opaque colors; durometer range from 55A to 40D; gamma and EtO sterilizable
Thermoset Silicone Ela	astomers	
Thermoset Silicone Elastomers/Liquid Silicone Rubber (LSR)	DuPont" Liveo" Silicone Elastomers (LSR)	Biocompatible; non-irritating and non-sensitizing; sterilizable; made without plasticizers, phthalates or latex
SBC Copolymer		
Styrene Butadiene Copolymer (SBC)	INEOS Styrolution Styroflex® (SBC)	Rubber-like mechanics; outstanding resilience; toughness and transparency; extremely high elasticity; excellent bonding to other polymers

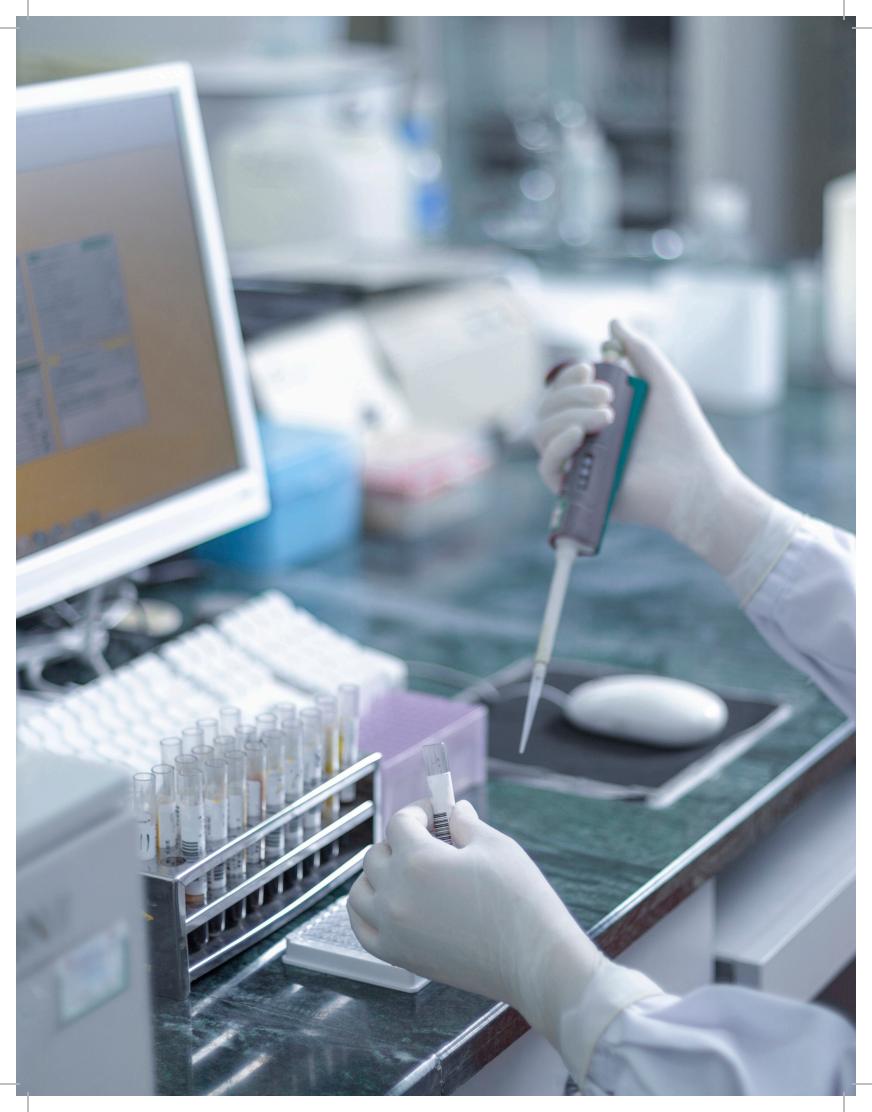
Solutions For Labware & Diagnostics

Custom Solution Needs

Formerra[™] Custom Solutions

FDA-registered pre-colored resins and masterbatch options, color coding for safety and brand recognition

Formerra collaborates with key material suppliers to provide FDA-approved pre-colored resins





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Global Reach

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