



Healthcare Supplier Line Card

MATERIAL
SOLUTIONS
**ADVANCING
HEALTHCARE**





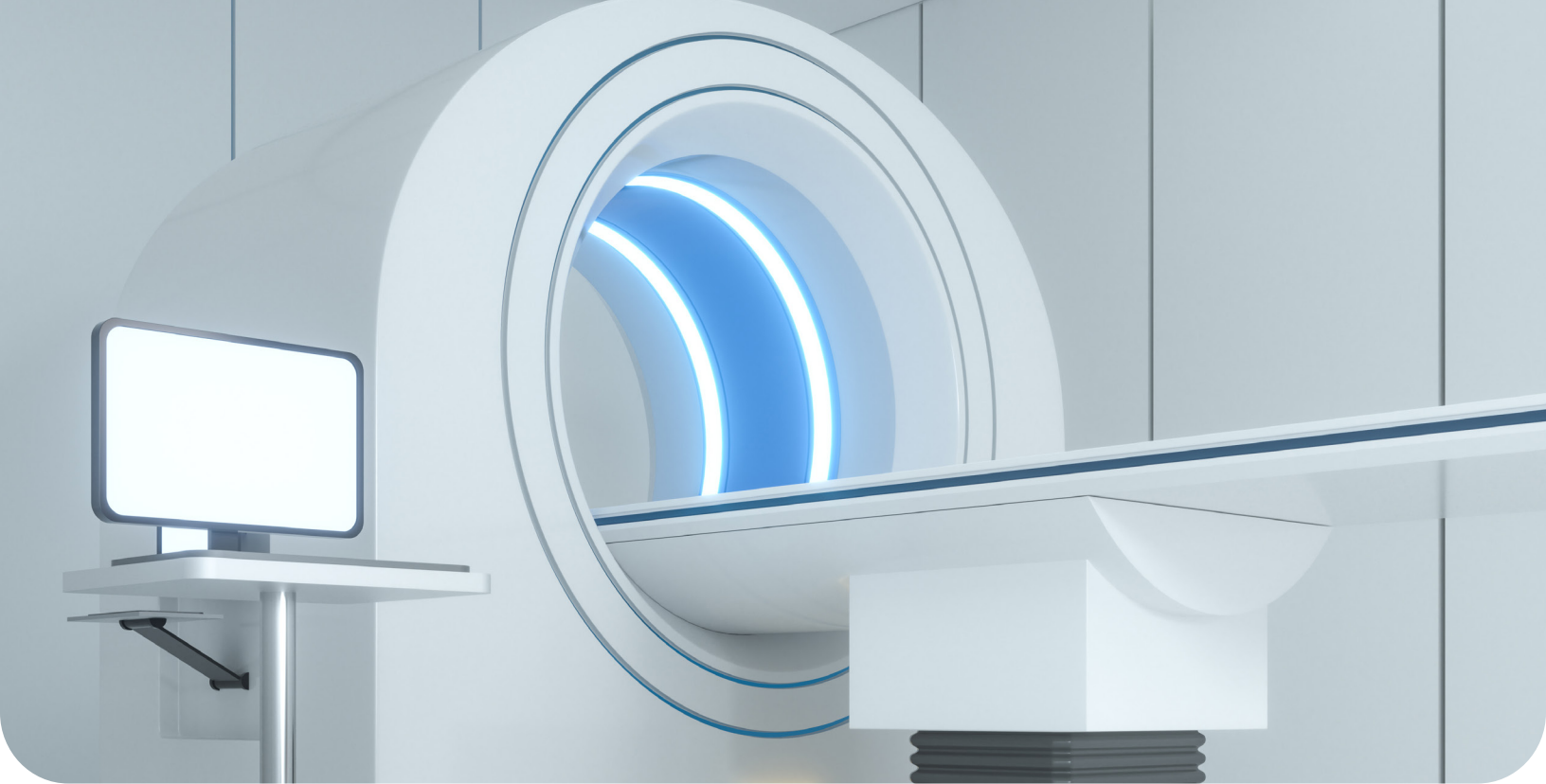
Solid, Trusted, Proven

Offering unparalleled industry knowledge, supply chain excellence, and an expansive material portfolio combined with our unmatched technical expertise, we come alongside our customers, offering support and solutions to ignite collaboration and drive success.



Our Suppliers





Healthcare Trends & Market Dynamics

The world has become very different in recent years, and it is more evident than ever within healthcare. Consumers are more interested in understanding and tracking their health from a non-clinical remote location, at home, or on the go. As a result, this evolving landscape will provide patients and practitioners with innovative products in healthcare around advanced technology within medical wearables, drug delivery devices, remote patient monitoring, labware, and diagnostic testing kits.

Formerra's Healthcare Focus Areas

As this new patient-centric approach enters the marketplace, needs and priorities will shift. With over 20 years of material and regulatory experience, Formerra's expert team understands the medical regulatory environment, leveraging decades of experience to select best-fit materials, reduce supply-chain risk, and improve production efficiencies. We regularly study market drivers and trends, including those that influence key healthcare applications:

- Drug Delivery Devices
- Wearable & Remote Patient Monitoring
- Labware & Diagnostics
- Catheters & Tubing
- Fluid Management
- Medical & Surgical Equipment
- Medical & Pharmaceutical Packaging



How Can We Help You Succeed?

When designing for the healthcare industry, developing robust, high-performing components, reliable manufacturing, and unfailing supply chain operations is imperative. Our dedicated healthcare team is here to help with:

Design Assistance and Material Selection Guidance: providing extensive application knowledge and a broad portfolio of specialty medical materials

Accelerate Time to Market: aligning technical and manufacturing support

Simplify your Business: optimizing supply chain and logistics

RIGID POLYMERS

Product Family	Supplier	Sterilization	Regulatory	Clarity
ABS	INEOS Styrolution™	Gamma/EtO/E-Beam/NO2	USP Class VI, ISO 10993, FDA	Opaque
Acrylic/PMMA	Trinseo™	Gamma/E Beam (may discolor), EtO	USP Class VI, FDA	Transparent
Blends & Alloys	Avient™, Covestro™, Trinseo™, INEOS Styrolution™	Gamma/E Beam, EtO	USP Class VI, ISO 10993	Opaque/Transparent
Cellulosic	Eastman®	Gamma/E Beam, EtO	USP Class VI, ISO 10993	Transparent
EVA	Celanese, Dow®, Westlake™	Gamma/E Beam, EtO	USP Class VI, FDA	Opaque/Transparent
HDPE, LDPE, ULPE	Dow®, Chevron Phillips Chemical™, Westlake™	Gamma/E Beam, EtO	USP Class VI, FDA	Opaque/Translucent
HIPS & GPPS	Americas Styrenics™	Gamma/E Beam (may discolor), EtO (avoid repeated cycles)	USP Class VI, FDA	Transparent
Liquid Crystal Polymer (LCP)	Celanese	Gamma, EtO, Repeated Autoclave	USP Class VI, ISO 10993	Opaque
mABS	INEOS Styrolution™	Gamma/EtO/E-Beam/NO2	USP Class VI, ISO 10993, FDA	Transparent
MBS	INEOS Styrolution™	Gamma/EtO/E-Beam/NO2	USP Class VI, ISO 10993, FDA	Transparent
Polyamides	Avient™, Celanese	Gamma/E Beam (may discolor), EtO	USP Class VI, ISO 10993, FDA	Opaque
PBT, PET	Covestro™, Celanese	Gamma/E Beam (may discolor), EtO	USP Class VI, ISO 10993, FDA	PBT – Opaque PET – Transparent
Copolyester	Eastman®	Gamma/E Beam (may discolor), EtO	USP Class VI, ISO 10993, FDA	PBT – Opaque PET – Transparent
PC	Covestro™, Trinseo™	Gamma/E Beam (may discolor), EtO, Autoclave (limited)	USP Class VI, ISO 10993	Transparent
POM	Delrin	EtO	USP Class VI, ISO 10993, FDA	Opaque
PP	Formerra Verity™, LyondellBasell™, INVISTA™, INEOS™, GEON® Performance Solutions, Pinnacle Polymers™	Gamma/E Beam (must be stabilized), EtO	USP Class VI, FDA	Translucent/ Transparent
Polyphenylene Sulfide (PPS)	Celanese	Gamma, EtO	USP Class VI, ISO 10993	Opaque
PSU, PPSU	BASF™	Gamma/E Beam, EtO, Autoclave	USP Class VI, ISO 10993, FDA	Transparent
PVC	GEON® Performance Solutions	Gamma/E Beam (must be stabilized), EtO (must be out-gassed)	USP Class VI, FDA	Transparent
SAN	INEOS Styrolution™	Gamma/EtO/E-Beam/NO2	USP Class VI, ISO 10993, FDA	Transparent
SBC	INEOS Styrolution™	Gamma/EtO/E-Beam/NO2	USP Class VI, ISO 10993, FDA	Transparent
SMMA	INEOS Styrolution™	Gamma/EtO/E-Beam/NO2	USP Class VI, ISO 10993, FDA	Transparent

THERMOPLASTIC ELASTOMERS (TPEs)

Product Family	Supplier	Sterilization	Regulatory	Clarity
ENG TPE	Celanese	Gamma/E Beam, EtO	USP Class VI, ISO 10993, FDA	Opaque
fPVC	GEON® Performance Solutions	Gamma/E Beam (must be stabilized), EtO (must be out-gassed)	USP Class VI, FDA	Transparent
POE	Dow®	Gamma/E Beam, EtO	USP Class VI, FDA	Opaque/Transparent
SEBS	Avient™	Gamma/E Beam, EtO	USP Class VI, FDA	Transparent
S-TPE	INEOS Styrolution	Gamma/EtO/E-Beam/NO2	USP Class VI, ISO 10993, FDA	Transparent
TPU	Covestro™	Gamma/E Beam (may discolor), EtO	USP Class VI, ISO 10993, FDA	Transparent
TPV	Avient™, Celanese	Gamma/E Beam (may cause loss in physical properties), EtO	USP Class VI, FDA	Opaque

THERMOSET ELASTOMERS

Product Family	Supplier	Sterilization	Regulatory	Clarity
Silicone	DuPont™ Liveo	Gamma, EtO, Autoclave	USP Class VI, ISO 10993, FDA	Transparent







Convenience
•
Enhanced Visibility
•
24/7 Access

Formerra.com A Personalized Experience

Register for an account at Formerra.com for a personalized experience with access to the information and functionality you need—all in one place!

Registered users get access to:

- Advanced product search and filtering
- Real-time pricing and product information
- Material availability
- Online ordering & reordering
- Order information and shipment tracking

Take The Next Step

Visit **Formerra.com** to:

- Explore solutions by material properties, industries, and suppliers
- Register for an account to gain access to personalized information, ordering, and more!

We're Here To Help

For general inquiries or customer service

Call **1.888.502.0951**

Email **inquiries@formerra.com**

For polymer technical support

Call **1.866.765.9824**

Email **phd@formerra.com**

Experts in these areas and beyond.



Healthcare



Packaging



Consumer



Industrial



Outdoor High
Performance



Electrical &
Electronics



Mobility



Building &
Construction

Copyright © 2024, Formerra, LLC. All the information in this literature is for general information purpose only. Formerra makes no representations, guarantees, or warranties of any kind with respect to the information contained in this literature, including its accuracy, completeness, reliability, 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 pricing, property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Formerra makes no warranties or guarantees respecting suitability of either Formerra'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. FORMERRA 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 or any other provided literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner. Any action you take upon the information you find in this literature is strictly at your own risk. Formerra will not be liable for any losses and/or damages in connection with the use of this literature. By using this literature, you hereby consent to this disclaimer and agree to its terms.