

SUPPLIER LINE CARD - DISTRIBUTION









HEALTHCARE TRENDS & MARKET DYNAMICS

In recent years, there has been increased consumer interest in understanding and tracking health outcomes from a non-clinical remote location, at home or on the go. As a result, the healthcare market is innovating with advanced new products and technologies including medical wearables, drug delivery devices, labware & diagnostic test kits and remote patient monitoring.

FORMERRA'S HEALTHCARE FOCUS AREAS

As these new healthcare innovations enter the market, and needs and priorities shift, our 30+ years of material expertise and regulatory



experience can help get your device to market safely and efficiently. We regularly study market drivers and trends, including those that influence key healthcare segments:

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

HOW CAN WE HELP YOU SUCCEED?

When designing parts for the healthcare industry, you're challenged with developing robust and high-performing components, developing highquality and reliable manufacturing and supply chain operations, adhering to regulatory and quality assurance standards and expediting time to market.

Our dedicated healthcare team is here to help:

- Provide product design assistance and material selection guidance, backed by extensive application knowledge and a broad portfolio of specialty medical materials
- Align technical and manufacturing support to accelerate time to market
- Optimize supply chain and logistics to simplify your business

PRODUCT FAMILY	SUPPLIER	STERILIZATION	REGULATORY	CLARITY
RIGID POLYMERS				
ABS	INEOS Styrolution [™] FCFC	Gamma/E Beam (may lose some impact), EtO (avoid repeated cycles)	USP Class VI, ISO 10993	Opaque
Fluoropolymer	Arkema [™]	EtO, Steam & Gamma (up to 10 Mrads)	USP Class VI & ISO 10993	Opaque
РММА	Trinseo™	Gamma/E Beam (may discolor), EtO	USP Class VI, FDA	Transparent
Blends & Alloys	Covestro", Trinseo", INEOS Styrolution™, Avient™	Gamma/E Beam, EtO	USP Class VI, ISO 10993	Opaque/ Transparent
Cellulosic	Eastman°	Gamma/E Beam, EtO	USP Class VI, ISO 10993	Transparent
EVA	DuPont [™] , Westlake [™]	Gamma/E Beam, EtO	USP Class VI, FDA	Opaque/ Transparent
HDPE, LDPE, ULPE	Dow [®] , Chevron Phillips Chemical [™] , Westlake [™] , DuPont [™]	Gamma/E Beam, EtO	USP Class VI, FDA	Opaque/Translucent
HIPS & GPPS	Americas Styrenics [™] , FCFC	Gamma/E Beam (may discolor), EtO (avoid repeated cycles)	USP Class VI, FDA	Opaque/Transparent
Polyamides	DuPont [™] , Avient [™] , Arkema [™]	Gamma/E Beam (may discolor), EtO	USP Class VI, ISO 10993, FDA	Opaque
PBT, PET	DuPont [™]	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
РОМ	DuPont™	EtO	USP Class VI, ISO 10993, FDA	Opaque
РР	FCFC, Lyondellbasell [™] , INVISTA [™] , INEOS [™] , GEON Performance Solutions, Pinnacle Polymers [™]	Gamma/E Beam (must be stabilized), EtO, Autoclave (must be high heat resistant grade)	USP Class VI, ISO 10993, FDA	Translucent/ 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/ E Beam (color may be affected and may lose some impact), EtO (avoid repeated cycles)	ISO 10993	Transparent
SBC	INEOS Styrolution [™]	Gamma/E Beam, EtO	USP Class VI, FDA	Transparent
THERMOPLASTIC ELASTOMERS (TPES)				
ENG TPE	DuPont [™] , Arkema [™]	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
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				
Silicone	DuPont™	Gamma, EtO, Autoclave	USP Class VI, ISO 10993, FDA	Transparent



formerra.com

CONTACT INFORMATION

UNITED STATES

Customer Service - West

Rancho Cucamonga, CA +1 909 987 8899 +1 800 447 4305 fax +1 909 987 5493

Customer Service - East

Littleton, MA +1 978 772 0764 +1 800 372 2732 fax +1 978 486 4130

Customer Service - Midwest

Romeoville, IL +1 630 972 0505 +1 800 323 0733 fax +1 630 972 3132

1.888.502.0951 www.formerra.com

ASIA

Customer Service

Shanghai, China +86 (0) 21 6028 4936 fax +86 (0) 21 6028 4999

CANADA

Customer Service Mississauga, Ontario +1 905 405 0003 +1 888 394 2662 fax +1 905 405 1580

COSTA RICA, PUERTO RICO & DOMINICAN REPUBLIC

Customer Service +1 630 972 0505

+1 800 323 0733 fax +1 630 972 3132

MEXICO

Customer Service Saltillo Coahuila, Mexico +52 844 866 0012



Copyright © 2022, 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.