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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 high-quality 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

RIGID POLYMERS Common Polymer (Impact), ECC (avoid repeated cycles) USP Class VI, ISD 10993 Opaque PMMA Trinsco* Gamma/E Beam (may discolor), ECO USP Class VI, ISD 10993 Opaque* PMMA Trinsco* Gamma/E Beam, EDO USP Class VI, ISD 10993 Opaque*/Transparent Elemada A Alleys Dulron**, Checktori, Trinsco* Gamma/E Beam, EDO USP Class VI, ISD 10993 Transparent EVA Dulron**, Westlake* Gamma/E Beam, EDO USP Class VI, ISD 10993 Transparent HOPE, LDPE, ULPE Ober*, Chevon Philips General, Ebam, EDO USP Class VI, ISD 10993, FDA Opaque/Transparent HOPS & CPPS Americas Styrenics* General, Ebam (may discolor), EDO USP Class VI, ISD 10993, FDA Opaque/Transparent HOPS & CPPS Americas Styrenics* General Ebam (may discolor), EDO USP Class VI, ISD 10993, FDA Opaque/Transparent POLY Covestro*, DuPont* General Ebam (may discolor), EDO USP Class VI, ISD 10993, FDA Opaque/PET- Transparent POL Covestro*, Trinsco* General Ebam (may discolor), EDO USP Class VI, ISD 10993, FDA Opaque POL Covestro*,	PRODUCT FAMILY	SUPPLIER	STERILIZATION	REGULATORY	CLARITY	
PMMA Trinsed** Gamma/E Beam (may discolor), EVD USP Class VI, ISO 1093 Transparent	RIGID POLYMERS					
Blends & Alloys Avient", Covestro", Trinseo", Gamma/E Beam, ETO USP Class VI, ISO 10993 Transparent	ABS	INEOS Styrolution [™]		USP Class VI, ISO 10993	Opaque	
Cellulosic Eastman Gamma/E Beam, E10 U5P Class VI, ISO 10993 Transparent EVA DuPont", Westlake" Gamma/E Beam, E10 U5P Class VI, ISO 10993 Transparent HDPE, LDPE, ULPE Ow", Chevron Phillips Chemical", Westlake", DuPont" HIPS & GPPS Americas Syrenics Gamma/E Beam (may discolor), E10 (avoid repeated cycles) Folyamides Avient", DuPont", Arkema" Gamma/E Beam (may discolor), E10 (avoid repeated cycles) Folyamides Avient", DuPont", Arkema" Gamma/E Beam (may discolor), E10 (avoid repeated cycles) Folyamides Avient", DuPont" Gamma/E Beam (may discolor), E10 (by P Class VI, ISO 10993, FDA PPT - Opaque PPT, PETT Covestro", DuPont" Gamma/E Beam (may discolor), E10 Copolyester Eastman Gamma/E Beam (may discolor), E10 Copolyester Eastman Gamma/E Beam (may discolor), E10 U5P Class VI, ISO 10993, FDA PPT - Opaque PPT - Transparent PPC Covestro", Trinseo Gamma/E Beam (may discolor), E10 Autoclave (limited) DuPont" E10 U5P Class VI, ISO 10993, FDA PPT - Opaque PPT - Transparent PPU U5P Class VI, ISO 10993, FDA PPT - Transparent PPU U5P Class VI, ISO 10993, FDA Opaque PPT - Transparent PPU U5P Class VI, ISO 10993, FDA Opaque PPT - Transparent PPU U5P Class VI, ISO 10993, FDA Opaque PPT - Transparent PPU U5P Class VI, ISO 10993, FDA Opaque PPT - Transparent PPU U5P Class VI, ISO 10993, FDA Opaque PPT - Transparent PPU U5P Class VI, ISO 10993, FDA Opaque PPT - Transparent PPU U5P Class VI, ISO 10993, FDA Opaque PPT - Transparent PPU C GEON 'Performance Solutions Gamma/E Beam, E10, Autoclave DPT Class VI, ISO 10993, FDA Transparent PPU U5P Class VI, ISO 10993, FDA Opaque PPT - Transparent PPU U5P Class VI, ISO 10993, FDA Opaque PPT - Transparent PPU U5P Class VI, ISO 10993, FDA Opaque PPT - Transparent PPU C GEON 'Performance Solutions PPT Gamma/E Beam, E10 U5P Class VI, FDA Transparent PPU C GEON 'Performance Solutions PPT Gamma/E Beam (must be stabilized), U5P Class VI, FDA Transparent PPT Camma/E Beam (must be stabilized), U5P Class VI, FDA Transparent PPT Camma/E Beam (must be out-gassed) PPT Camma/E Beam (must be stabili	PMMA	Trinseo™	Gamma/E Beam (may discolor), EtO	USP Class VI, FDA	Transparent	
DuPont", Westlake" Gamma/E Beam, EEO USP Class VI, FDA Opaque/Transparent HIPPE, LIPPE, ULPE Dow", Chevron Phillips Chemical", Westlake", DuPont" Gamma/E Beam (may discolor), EEO USP Class VI, FDA Transparent HIPS & GPPS Americas Styrenics" Gamma/E Beam (may discolor), EEO USP Class VI, FDA Transparent Polyamides Avient", DuPont" Gamma/E Beam (may discolor), EEO USP Class VI, ISO 10993, FDA Opaque PET, PET Covestro", DuPont" Gamma/E Beam (may discolor), EEO USP Class VI, ISO 10993, FDA PET - Opaque PET - Transparent Copolyester Eastman Gamma/E Beam (may discolor), EEO USP Class VI, ISO 10993, FDA PET - Opaque PET - Transparent PC Covestro", Trinsco" Gamma/E Beam (may discolor), EEO USP Class VI, ISO 10993, FDA PET - Opaque PET - Transparent PC Covestro", Trinsco" Gamma/E Beam (may discolor), EEO USP Class VI, ISO 10993, FDA PET - Opaque PET - Transparent PC Govestro", Trinsco" Gamma/E Beam (may discolor), EEO USP Class VI, ISO 10993, FDA Opaque PET - Transparent PC GEON' Performance Solutions EEO USP Class VI, ISO 10993, FDA Opaque PP UspndellBasell", INVISTA", INCOS, GEON' Performance Solutions EEO USP Class VI, ISO 10993, FDA Transparent PC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EEO (must be out-gassed) FNA INCOS Styrolution Gamma/E Beam, EEO USP Class VI, FDA Transparent THERMOPLASTIC ELASTOMERS (TPES) ENG TPE Dow" Gamma/E Beam, EEO USP Class VI, FDA Transparent THERMOPLASTIC ELASTOMERS (TPES) ENG TPE Dow" Gamma/E Beam, EEO USP Class VI, FDA Transparent THERMOSET ELASTOMERS Avient" Gamma/E Beam (may discolor), EEO USP Class VI, FDA Transparent TPU Covestro" Gamma/E Beam (may discolor), EEO USP Class VI, FDA Transparent THERMOSET ELASTOMERS	Blends & Alloys		Gamma/E Beam, EtO	USP Class VI, ISO 10993	Opaque/Transparent	
HDPE, LDPE, ULPE Dow", Chevron Phillips Chemical", Westlake", DuPont" Gamma/E Beam (may discolor), EtO USP Class VI, FDA Transparent Polyamides Avient", DuPont", Arkema" Gamma/E Beam (may discolor), EtO USP Class VI, ISO 10993, FDA Opaque PBT, PET Covestro", DuPont" Gamma/E Beam (may discolor), EtO USP Class VI, ISO 10993, FDA Opaque PBT, PET Covestro", Trinsea" Gamma/E Beam (may discolor), EtO USP Class VI, ISO 10993, FDA PBT - Opaque PBT - Opaque PBT - Transparent PBT - Opaque PBT - O	Cellulosic	Eastman [®]	Gamma/E Beam, EtO	USP Class VI, ISO 10993	Transparent	
HIPS & GPPS Americas Styrenics* Gamma/E Beam (may discolor), EtO USP Class VI, FDA Transparent Polyamides Avient*, DuPont*, Arkema* Gamma/E Beam (may discolor), EtO USP Class VI, ISO 10993, FDA Opaque PBT, PET Covestro*, DuPont* Gamma/E Beam (may discolor), EtO USP Class VI, ISO 10993, FDA Opaque PBT, PET Covestro*, 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 USP Class VI, ISO 10993, FDA PBT - Opaque PDM DuPont* EtO USP Class VI, ISO 10993, FDA Opaque PPM NEOS*, GEON Performance Solutions Solutions*, Pimacle Polymers* PSU, PPSU BASF* Gamma/E Beam (must be stabilized), EtO USP Class VI, ISO 10993, FDA Opaque PPC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO (must be out-gassed) SAN INEOS Styrolution* Gamma/E Beam (must be stabilized), EtO (must be out-gassed) SBC INEOS Styrolution* Gamma/E Beam (must be stabilized), EtO (must be out-gassed) THERMOPLASTIC ELASTOMERS (TPES) ENG TFE DuPont*, Arkema* Gamma/E Beam, EtO USP Class VI, FDA Transparent THERMOPLASTIC ELASTOMERS (TPES) ENG TFE DuPont*, Arkema* Gamma/E Beam, EtO USP Class VI, FDA Transparent FDO USP Class VI, FDA Transparent THERMOSET ELASTOMERS	EVA	DuPont [™] , Westlake [™]	Gamma/E Beam, EtO	USP Class VI, FDA	Opaque/Transparent	
Polyamides Avient", DuPont", Arkema" Gamma/E Beam (may discolor), EtO USP Class VI, ISO 10993, FDA Opaque PBT, PET Covestro", 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 USP Class VI, ISO 10993, FDA PBT-Opaque PET-Transparent PC LyondellBasell", INVISTA", INEOS T, GEON' Performance Solutions, Pinnacle Polymers' EtO USP Class VI, ISO 10993, FDA Opaque PSU, PPSU BASE" Gamma/E Beam (must be stabilized), EtO USP Class VI, FDA Transparent PVC GEON' Performance Solutions EtO (must be out-gassed) USP Class VI, FDA Transparent SAN INEOS Styrolution Gamma/E Beam (must be stabilized), EtO (avoid repeated cycles) 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, FDA Transparent FPVC GEON' Performance Solutions Gamma/E Beam, EtO USP Class VI, FDA Transparent THERMOPLASTIC ELASTOMERS (TPES) ENG TPE DuPont", Arkema" Gamma/E Beam, EtO USP Class VI, FDA Transparent FPVC GEON' Performance Solutions Gamma/E Beam, EtO USP Class VI, FDA Transparent THERMOPLASTIC ELASTOMERS (TPES) ENG TPE Dow" Gamma/E Beam, EtO USP Class VI, FDA Transparent FPVC GEON' Performance Solutions EtO (must be out-gassed) FPVC USP Class VI, FDA Opaque Transparent	HDPE, LDPE, ULPE		Gamma/E Beam, EtO	USP Class VI, FDA	Opaque/Translucent	
PBT, PET Covestro", DuPont" Gamma/E Beam (may discolor), EtO USP Class VI, ISO 10993, FDA PET - Opaque PET - Transparent Copolyester Eastman" Gamma/E Beam (may discolor), EtO USP Class VI, ISO 10993, FDA PET - Opaque PET - Transparent PC Covestro", Trinseo" Gamma/E Beam (may discolor), EtO, Autoclave (limited) PDM DuPont" EtO USP Class VI, ISO 10993, FDA Opaque PP (Ingois), GEON' Performance Solutions, Pinnacle Polymers' Solutions, Pinnacle Polymers' EtO USP Class VI, ISO 10993, FDA Transparent PVC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO USP Class VI, FDA Transparent EtO USP Class VI, FDA Transparent Transparent PVC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO (must be out-gassed) EtO (must be out-gassed) INEOS Styrolution" Gamma/E Beam (color may be affected and may lose some impact), EtO (avoid repeated cycles) SBC INEOS Styrolution" Gamma/E Beam, EtO USP Class VI, FDA Transparent THERMOPLASTIC ELASTOMERS (TPES) ENG TPE DuPont", Arkema" Gamma/E Beam (must be stabilized), EtO (must be out-gassed) FPVC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO (sovid repeated cycles) ENG TPE DuPont", Arkema" Gamma/E Beam (must be stabilized), EtO (must be out-gassed) FPVC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO (sovid repeated cycles) ENG TPE DuPont", Arkema" Gamma/E Beam (must be stabilized), EtO (must be out-gassed) FPVC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO (sovid repeated cycles) FPVC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO (sovid repeated cycles) FPVC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO (sovid repeated cycles) FPVC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO (sovid repeated cycles) FPVC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO (sovid repeated cycles) FPVC Lass VI, FDA (sovid repeated cycles) FPVC GEON' Performance Solutions Gamma/E Beam (must be stabilized)	HIPS & GPPS	Americas Styrenics [™]		USP Class VI, FDA	Transparent	
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PC Covestro", Trinseo" Gamma/E Beam (may discolor), EtO, USP Class VI, ISO 10993, FDA Autoclave (limited) POM DuPont" EtO USP Class VI, ISO 10993, FDA Opaque LyondellBasell", INVISTA", INEOS", GEON' Performance Solutions, Pinnacle Polymers' EtO USP Class VI, ISO 10993, FDA USP Class VI, FDA USP	РВТ, РЕТ	Covestro™, DuPont™	Gamma/E Beam (may discolor), EtO	USP Class VI, ISO 10993, FDA		
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PP LyondellBasell", INVISTA", INEOS, GEON' Performance Solutions, Pinnacle Polymers" FSU, PPSU BASF" Gamma/E Beam, EtO, Autoclave USP Class VI, FDA Transparent PVC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO (1993, FDA Transparent EtO (must be out-gassed) USP Class VI, FDA Transparent USP Class VI, FDA Transparent INEOS Styrolution" Gamma/E Beam (color may be affected and may lose some impact), EtO (avoid repeated cycles) 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, ISO 10993, FDA Opaque Transparent Dec Dow" Gamma/E Beam (must be stabilized), EtO (must be out-gassed) FUO (must be out-gassed) USP Class VI, FDA Transparent TPU Covestro" Gamma/E Beam (may discolor), EtO USP Class VI, FDA Transparent TPU Covestro" Gamma/E Beam (may discolor), EtO USP Class VI, FDA Transparent TPU Avient", Celanese Gamma/E Beam (may cause loss in physical properties), EtO USP Class VI, FDA Opaque THERMOSET ELASTOMERS	PC	Covestro [™] , Trinseo [™]		USP Class VI, ISO 10993	Transparent	
PP INEOS, GEON' Performance Solutions, Pinnacle Polymers' EtO USP Class VI, FDA ITansparent PSU, PPSU BASF" Gamma/E Beam, EtO, Autoclave USP Class VI, FDA Transparent PVC GEON' Performance Solutions Gamma/E Beam (must be stabilized), EtO (must be out-gassed) SAN INEOS Styrolution" Gamma/E Beam (color may be affected and may lose some impact), EtO (avoid repeated cycles) 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) POE Dow' Gamma/E Beam, EtO USP Class VI, FDA 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 TRANSPARENT Transparent USP Class VI, FDA Transparent USP Class VI, FDA Opaque Transparent USP Class VI, FDA Transparent USP Class VI, FDA Transparent USP Class VI, FDA Transparent TPU Covestro" Gamma/E Beam (may discolor), EtO USP Class VI, ISO 10993, FDA Transparent TPU Avient", Celanese Gamma/E Beam (may cause loss in physical properties), EtO USP Class VI, FDA Opaque	РОМ	DuPont [™]	EtO	USP Class VI, ISO 10993, FDA	Opaque	
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SAN INEOS Styrolution and may lose some impact), EtO (avoid repeated cycles) 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) POE Dow Gamma/E Beam, EtO USP Class VI, FDA Transparent SEBS Avient Gamma/E Beam, EtO USP Class VI, FDA Transparent TPU Covestro Gamma/E Beam (may discolor), EtO USP Class VI, FDA Transparent TPV Avient Celanese Gamma/E Beam (may cause loss in physical properties), EtO USP Class VI, FDA Opaque THERMOSET ELASTOMERS	PVC	GEON® Performance Solutions		USP Class VI, FDA	Transparent	
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FPVC GEON® Performance Solutions Gamma/E Beam (must be stabilized), EtO (must be out-gassed) 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	THERMOPLASTIC ELASTOMERS (TPES)					
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	ENG TPE	DuPont [™] , Arkema [™]	Gamma/E Beam, EtO	USP Class VI, ISO 10993, FDA	Opaque	
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	fPVC	GEON® Performance Solutions		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	POE	Dow [°]	Gamma/E Beam, EtO	USP Class VI, FDA	Opaque/Transparent	
TPV Avient™, Celanese Gamma/E Beam (may cause loss in physical properties), EtO USP Class VI, FDA Opaque THERMOSET ELASTOMERS	SEBS	Avient™	Gamma/E Beam, EtO	USP Class VI, FDA	Transparent	
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	TPV	Avient [™] , Celanese		USP Class VI, FDA	Opaque	
Silicone DuPont [™] Gamma, EtO, Autoclave USP Class VI, ISO 10993, FDA Transparent	THERMOSET ELASTOMERS					
	Silicone	DuPont [™]	Gamma, EtO, Autoclave	USP Class VI, ISO 10993, FDA	Transparent	



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