

High Performance Polymer Solutions for Today's Medical Industry

Today's healthcare applications require new polymer solutions to perform well with respect to stringent hospital processes and cleaning reagents, device mobility, and design innovation. Conventus Polymers offers a broad portfolio of semi-crystalline and amorphous resins from world-leading producers that offer regulatory compliance (e.g.: ISO 10993, USP VI, and UL), supply surety, custom color compounds, low minimum order quantities, and global support. Why choose Conventus for your next healthcare project? As a technical compounder and distributor of polymers, our priority and focus is on helping you find the right solution for your application.



ISO 10993
EtO/Y resistant
Autoclavable (1,000 cycles)
High impact
Clear and colorable
E-beam

Clear nylon
New autoclave grade
High heat
Silicone overmoldable

ISO 10993
EtO/Y resistant
Autoclavable (100 cycles)
Clear and colorable
Much higher chemical and heat resistance over PC

ISO 10993
EtO/Y resistant
Steam sterilization (1-2 cycle)
High impact
Clear
UL94 V-2 and UL94 V-0

AMORPHOUS	SEMI-CRYSTALLINE
PPSU	PEEK
A-PA12	PA12
PES	PPS
PSU	PPA
PC	POK
Si-PC	PBT
PC/ABS	PA66
PC/PET	TPV
PMMA	
ABS	

PC with improved impact and chemical resistance
UL94 V-0

Clear ABS
BPA-free

Excellent balance of impact and chemical resistance
UL94 V-0

ISO 10993
High flow (thin wall)
UL94 V-0 @ 1.5mm
Color fastness

ISO 10993
EtO/Y resistant
Autoclavable
Offered unfilled or with fillers for extremely high strength and stiffness

ISO 10993
EtO/Y resistant
Offered with 30-70% GF or CF for very high strength and stiffness

ISO 10993
Broad range of hardness: 30 Shore A – 50 Shore D
Low compression set
Lightweight

MEDICAL ELECTRONICS & DEVICE ENCLOSURES



RESPIRATORY & SLEEP THERAPY



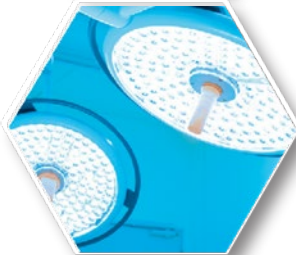
MEDICAL TRAYS & ANIMAL HOMES



DRUG DELIVERY & WEARABLES



SURGICAL INSTRUMENTS



MEDICAL LIGHTING



ORTHOPEDICS



BLOOD CARE

Industry	Application	Requirements	Example Solutions		
MEDICAL ELECTRONIC & DEVICE ENCLOSURES	Patient monitoring, blood pressure machine, thermometry, automated external defibrillator	Good chemical resistance to common healthcare cleaners, excellent impact, dimensional stability, UL94 V-0 or V-2, color fastness	PC/ABS <ul style="list-style-type: none"> ISO 10993 UL94 V-0 @ 1.5mm High flow 	Si-PC <ul style="list-style-type: none"> Excellent low temperature impact at -60°C UL94 V-0 @ 1.5mm 	PC/PET <ul style="list-style-type: none"> ISO 10993 UL94 V-0 @ 1.5mm Improved chemical resistance over PC/ABS
RESPIRATORY & SLEEP THERAPY	Respirators, ventilators, humidifiers, oxygen concentrators, masks	Biocompatibility, sterilizable, impact and chemical resistance, UL94, silicone overmolding capability	Polycarbonate <ul style="list-style-type: none"> ISO 10993 UL94 V-2 @ 0.75mm Clear and colorable High impact 	PC/ABS <ul style="list-style-type: none"> ISO 10993 UL94 V-0 @ 1.5mm Colorable Excellent surface appearance 	GRILAMID TR60 Amorphous Nylon <ul style="list-style-type: none"> Clear/colorable Chemical resistance Steam sterilizable (10 cycles) BPA-free
SURGICAL INSTRUMENTS	Trocars, retractors, staplers, forceps, endoscopy tools	Biocompatibility, high strength and stiffness, ductility and toughness, sterilizable, metal replacement	GRIVORY GV5H <ul style="list-style-type: none"> 50% GF PPA/PA66 ISO 10993 High strength and stiffness 	DURAPEEK 1000FC30 <ul style="list-style-type: none"> Autoclavable (1,000 cycles) Extremely high strength and stiffness 	SIVERAS L304G35H <ul style="list-style-type: none"> 30% GF LCP Exceptional strength and stiffness Very high flow
DRUG DELIVERY & WEARABLES	Inhalers, insulin delivery, smart watches	Biocompatibility, custom coloring, impact/wear, weight	DURA-STAT ABS1000 <ul style="list-style-type: none"> Surface resistivity of 1x10¹¹ ohm/sq Clear 	GRILAMID TR55 Amorphous Nylon <ul style="list-style-type: none"> ISO 10993/DMF/USP V1 Sterilizable BPA-free 	PLASLUBE PC02000 <ul style="list-style-type: none"> Lubricated polycarbonate PTFE and silicone-free Good impact and colorable
MEDICAL TRAYS & ANIMAL HOMES	Orthopedic trays, biocontainment	Clear, custom color, steam autoclave, high impact	DURASON PSU 1000HF <ul style="list-style-type: none"> 100 cycle autoclave @134°C Excellent chemical resistance 	DURASON PPSU 1000HF <ul style="list-style-type: none"> 1,000 cycle autoclave @ 134°C Very high impact Very high flow 	GRILAMID TR FE11292 PA12 <ul style="list-style-type: none"> 500 cycle autoclave @134°C Superior impact Clear and custom colorable
MEDICAL LIGHTING	Housing, reflectors, handles and covers	Clear, custom color, steam autoclave, high impact	GRILAMID XE 3958 <ul style="list-style-type: none"> 94% light transmission UL94 V-0 @ 1.5mm Low haze 	DURATOUGH PC XR2289 <ul style="list-style-type: none"> 97.4% reflectivity Metallization replacement 	XAREC SPS EA537 <ul style="list-style-type: none"> 260°C (500°F) heat deflection temperature UL94 V-0 @ 0.8mm
ORTHOPEDICS	Knee trials, external bone fixation devices, cases	Biocompatibility, custom coloring, impact/wear	PARYLS F1350 PPSU <ul style="list-style-type: none"> ISO 10993 Repeated autoclave (1,000 cycles) High impact 	DURAPEEK 1000HF <ul style="list-style-type: none"> High strength Fully custom color portfolio 	GRILAMID TR XE 11078 <ul style="list-style-type: none"> 20% GF TR 92% light transmission/8 7% clarity
BLOOD CARE	Blood oxygenators, blood collection, filters, membranes	Biocompatibility, clarity, e-beam, autoclave, performance over broad pH range	PARYLS F3050M Polysulfone <ul style="list-style-type: none"> ISO 10993 FDA/NSF compliant 	Polycarbonate <ul style="list-style-type: none"> ISO 10993 FDA compliant Custom colorable High impact 	PARYLS F3150 Polysulfone <ul style="list-style-type: none"> FDA/NSF compliant Excellent hydrolytic stability

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