

Real solutions. Real medical choice.

As the healthcare industry evolves, so do your product needs. With the industry's most comprehensive selection of medically approved specialty and engineering thermoplastic materials — with FDA, United States Pharmacopeia (USP) and ISO 10993 ratings — we have the right solution for you.



Manufacturer	Tradename	Material	Soft Touch	Clear	ISO 10993*	USP VI	FDA/Food Contact
Alphagary, an Orbia business	ALPHAKELEN	Flexible PVC	●	●			●
Ascend Performance Materials	HiDura™	Medical PA 6/6			●	●	●
	Vydyne®	PA 6/6					●
DuPont	MULTIFLEX™	TPE	●				●
Elastron	Elastron G	TPE	●			●	●
	Elastron V	TPV	●			●	●
ENVALIOR	AKULON®	PA6			●	●	●
	ARNITE®	PBT					●
	ARNITEL®	TPC	●		●	●	●
	DURETHAN®	PA 6					●
	ECOPAXX®	PA 4/10					●
	FORTII®	PPA			●	●	●
	POCAN®	PBT					●
	STANYL®	PA 4/6					●
	XYTRON®	PPS					●
Evonik Industries	TROGAMID® CX	Amorphous Nylon		●			●
	VESTAMID® L	PA 12					●
Formosa Plastics Corporation	Formolene®	PP		●			●
Formosa Plastics Group	TAIRIPRO®	PP		●		●	●
Huntsman	IROGRAN®	TPU	●	●			●
Idemitsu Chemical	Tarflon™	PC		●			●
INVISTA	MedSelect™	PP		●	●	●	●
KOLON ENP	KOCETAL®	POM			●	●	●
KOREA POLYACETAL Co. LTD.	Kepital®	POM			●	●	●
LG Chem	Keyflex®	TPC	●				●
	LG ABS	ABS				●	●
	LG MABS	Transparent ABS		●	●	●	●
LX MMA	LX PMMA	PMMA		●			●
Mitsubishi Engineering Plastics Corp.	Iupilon®	PC		●	●	●	●
Mitsui Plastics	TPX™	PMP Copolymer		●			●
Plaskolite, Inc.	Optix®	PMMA		●		●	●
SABIC's Specialties business	LEXAN™	PC Copolymer		●	●	●	●
	LNP™	Compounds			●	●	●
	NORYL™	PPE+PS Resin			●	●	●
	ULTEM™	PEI Resin		●	●	●	●
SK Chemicals	ECOZEN	Copolyester		●			●
	ECOTRIA	Copolyester		●			●
	SKYGREEN®	PETG		●	●	●	●
	SKYPEL®	TPC	●				●
Syensqo	Amodel®	PPA					●
	AvaSpire®	PAEK			●		●
	Ixef®	PARA					●
	KetaSpire®	PEEK			●	●	●
	Omnix®	HPPA					●
	Radel®	PPSU		●	●	●	●
	Ryton®	PPS					●
	Udel®	PSU		●	●	●	●
	Veradel®	PESU		●	●	●	●

*ISO 10993 is a finished medical device approval. Materials identified have been utilized in existing medical devices in compliance with ISO 10993 healthcare regulations.

LNP™ ELCRES™ CRX copolymer resins

Discover polycarbonate (PC) copolymer from SABIC's Specialties business with improved chemical resistance for medical enclosures and housings.

Advantages:

After exposure to aggressive disinfectants, the improved chemical resistance helps:

- prevent environmental stress cracking (ESC)
- retain impact performance

Sterilization Methods

Medical devices that come in contact with body tissue and fluids must be sterilized to decrease the risk of infection. With the complexity of sterilization, let our team help you navigate material selection to ensure your product requirements are being met.

Method	Overview	Suitable Materials	Not Suitable Materials
Steam Sterilization	Occurs in an autoclave and includes the use of saturated steam under pressure. It is one of the most popular and widely used sterilization methods. The two commonly used temperature and time combinations for steam sterilization are 30 minutes at 121°C (250°F) or 4 minutes at 132°C (270°F), though others exist. The steam combined with the heat requires the materials exposed to be moisture and heat resistant.	PC (<150 cycles) PEI POM (<25 cycles) PESU (<100 cycles) PPSU PSU (<100 cycles)	ABS Nylons PBT PMMA SAN TPU
Ethylene Oxide (EtO)	EtO is a colorless gas that is typically used in place of steam sterilization with devices made of materials that are moisture and heat sensitive. EtO is also absorbed by many materials so the sterilization cycle also includes a step to remove the residual EtO and results in being a lengthy process (hours to days).	Almost all materials	A few select specialized grades of POM and mPPE
Gamma & E-beam Radiation	Shorter wavelength, higher energy photons are used to kill microbial life. kiloGray (kGy) or Megarad (Mrad) doses of radiation are an effective sterilant, but can also be damaging to materials. Some plastic resins can be stabilized to withstand radiation sterilization.	ABS PETG PBT PC* PPS PPA PP* PESU PPSU	PMP POM mPPE

*Special stabilized grades for radiation available

Materials and parts not suitable for radiation sterilization may be subject to distortion, hydrolytic attack, embrittlement and crosslinking.

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