

Check out the industry's most comprehensive selection of Medically Approved Engineering Thermoplastic Materials.

Medical Expertise

With years of experience supplying medical- and dental-related industries, we understand the stringent requirements that your products need to meet. In an effort to help you meet those demands and bring greater value to your operations, we stock a wide range of thermoplastics with FDA, United States Pharmacopoeia (USP) and ISO 10993 ratings.

Clear Product Offering

Manufacturer – Tradename	USP VI	ISO10993	FDA
Colorite Flexible PVC Compounds	X	X	X
EMS Nylon 12 – Grilamid®	X	X	X
EMS Nylon Copolymer – Grivory®	X		X
Huntsman TPU – Irogran®	X		X
Idemitsu Polycarbonate – Tarflon®			X
INEOS SAN – Lustran®	X	X	X
LG Chemical Transparent ABS – LG Chem®	X		X
Mitsui PMP Copolymer – TPX®	X		X
Plaskolite PMMA Acrylic – Optix®	X		X
SK Chemical PETG – Skygreen®	X	X	X

Soft Touch Product Offering

Manufacturer – Tradename	USP VI	ISO10993	FDA
Colorite Flexible PVC Compounds	X	X	X
DSM Engineering Plastics COPE – Arnitel®	X		X
DSM Thermoplastic Elastomers TPV – Sarlink®	X		X
Huntsman TPU – Irogran®	X		X
Multibase SEBS/TES – Multiflex®			X
Multibase TPSiV™			X

Rigid/Non-Clear Product Offering

Manufacturer – Tradename	USP VI	ISO10993	FDA
Ascend Performance Materials Nylon 66 – Vydene®			X
Colorite Rigid PVC Compounds	X	X	X
CP Chem Ryton® PPS	X	X	X
Custom Resins Nylon 6 – Nylene®			X
DSM Engineering Plastics Nylon 6 – Akulon®	X		X
EMS PPA – Grivory®			X
EMS PA6 and Nylon Alloys – Grilon®			X
Fiberfil Engineering Plastics Polypropylene – Fiberfil®		X	X
INEOS ABS – Lustran®	X	X	X
Korea Engineering Plastics Acetal Copolymer – Kepital®	X		X
LG Chemical ABS – LG Chem®	X		X

Based on your sterilization requirements, we can help you find the product to meet your specific needs.

Material Type	Steam (@ 121C)	EtO (Ethylene Oxide)	Gamma (25kGy) and E-beam
ABS	Not Recommended Distorts	OK	OK
ABS (Transparent)	Not Recommended Distorts	OK	OK
Acetal (POM – Copolymer)	OK	OK (at room temp)	Not Recommended (20kGy upper limit)
Acrylic (PMMA)	Not Recommended Distorts	OK	Fair – Standard Grades May Yellow – special grades available
Copolyester Elastomer (COPE/TPEE)	OK	OK	OK
Nylons (PA6, PA66, Copolymers)	OK* (may swell slightly)	OK	OK – Brownish Hue Possible
Nylon 12 – Amorphous	Grade Dependent	OK	OK
PETG	Not Recommended Distorts	OK	OK
Polymethylpentene (PMP)	OK	OK	OK
Polycarbonate (PC)	Poor - hydrolytic attack (multiple cycles)	OK	OK (potential reversible color shift)
Polyphenylene Sulfide	OK	OK	OK
Polyphthalamide (PPA)	OK	OK	OK
Polypropylene (PP)	Not Recommended Distorts	OK (may stress crack)	Grade dependent Special stabilizers needed
Polyvinylchloride (PVC)	Grade dependent Consult for proper formulations. Rigid vinyls will distort	OK	Special grades are available (color corrected, stabilized)
SAN	Not Recommended Distorts	OK	OK (Mechanically Durable @ 200 kGy; Color Shift at 50 kGy)
Styrenic Based Thermoplastic Elastomers (SEBS/TES)	Yes/No Grade Dependent	OK	OK
Thermoplastic Polyurethanes (TPU)	Not Recommended	OK	OK
Thermoplastic Vulcanizate (TPV)	OK	OK	OK

Contact your local account manager for further information or call Chase Plastics directly at **(800) 232-4273**.

Any recommendation by Chase Plastics personnel for the use of any material is based on tests or experience believed to be reliable. However, since the final processing and use of the product are beyond our control, we make no warranty as to such use or effects incident to such use, handling or sale.



Specialty Engineering Thermoplastics Distributor

6467 Waldon Center Drive
Clarkston, Michigan 48346-1584
(248) 620-2120 Fax: (248) 620-3192
Toll Free: (800) 232-4273
www.chaseplastics.com

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