

A Collaborative Partner from Concept to Scaled Production

Complexity is our specialty. From regulatory guidance to engineering and development, Teel can help you navigate the complexity of highly regulated markets and get your product concept off the ground. Our advanced manufacturing facilities and technology can then take your prototype to scale, producing it with tight-tolerances and reliable quality with our extrusion and injection molding services.

Engineering and Development

Experienced team of engineers and technical experts offering full-service design-for-manufacturability (DFM), co-engineering, rapid prototyping, and regulatory support. Analytical testing via our in-house ISO 17025-accredited analytical lab specializing in polymer science. Advanced flow modeling technology for optimizing the extrusion process and a Scientific Molding approach to injection molding design.

Extrusion

Teel is a leader in tubing extrusion with capabilities ranging from tight-tolerance thin-wall, multilumen, paratube, multilayer, and mandrel extrusion options. Our multiple manufacturing facilities house 40+ extrusion lines. Tight dimensional control with in-line measurement and SPC tools. Flow modeling technology helps ensure production efficiency and precise control of variables.

Injection Molding

High-cavitation molds for scalable production, overmolding capabilities for complex assemblies, and robotics-assisted operations for faster production times. Conformal cooling mold design for parts with thin and delicate structures helps ensure consistent part integrity. We house 17 Arburg machines.

Clean Rooms

Two ISO Class 8 clean rooms for sensitive devices. Clean room capacity for extrusion, injection molding, finishing, and packaging.

Sustainability

We offer bio-based resins and plasticizers (phtalate free) as sustainable options. Packaging and process options for reducing cost and environmental impact are also available. Teel's headquarters was designed with sustainability in mind and includes multiple energy efficient and environmental-impact reducing features.

Collaborative Partnership

Our collaborative approach is highly responsive and fluid. We're known for going beyond the basics and providing deeper guidance and partnership with our engineering resources, plastics expertise, and award-winning customer service. Each of our capabilities serves as a resource to draw from as we work together to bring your product to market.

The plastics experts at Teel understand the characteristics of polymers and offer personalized technical solutions.



Polymer Performance

Where Polymer Expertise Meets Precision Manufacturing



Meet Our Team of Experts

Teel’s team of experts is ready to work with you to design a part and process that is ready for implementation. Starting from a blank sheet of paper? No problem. We have a team of technical experts ready to assist with everything from material selection and part dimensions to packaging and shipping. Have a part that you need improved? We are happy to take on projects where others have not been able to succeed.

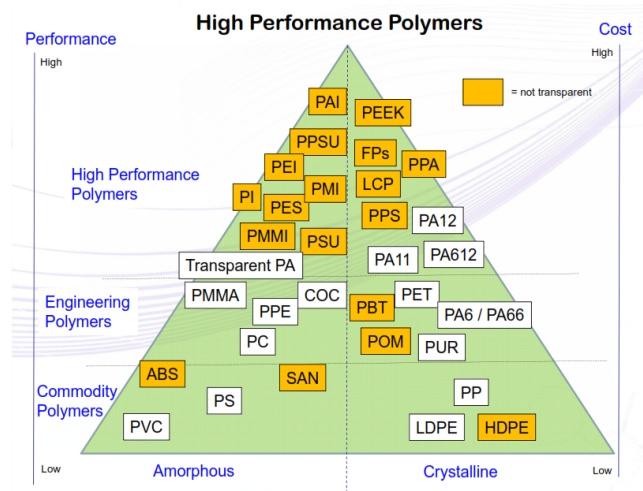
Teel follows a well-developed stage gate process within its project management system. We are experienced in designing everything from simple parts to complicated production processes and can scale our system accordingly.

We follow a design for manufacturability philosophy and make sure parts are developed that work right the first time. In addition, we have the latest technical tools and a full service analytical lab we can use to both cut down on development time and design a better end product.

Teel uses both digital and real world tools and techniques to improve part design. We have CAD software with mold and die flow capability. This allows to model everything from die balance to shot cycle times before we start producing physical parts. We can also do design work to combine parts or simplify downstream manufacturing steps.

Teel has SLA printing capabilities that can be used to create 3D models of parts in days instead of weeks at a much lower cost. We can also create mud molds and do prototyping in the actual material on the actual machine for better feedback on form, fit, and function.

Put our tools to use for you!



	HIGHEST	HIGHER	LOWER	LOWEST
CHEMICAL RESISTANCE	POM, FEP, EFEP, PFA, PTFE, ECTFE, PVDF, PEEK, PCTFE, PES, PPO	HDPE, LDPE, LLDPE, PP, PVC, PA11, PA12, PET, PBT, PETG, SEBS, SBS, SIS, SEPS, TPE-O, PEBA, COPE, TPU, PSU, PPS, PPSU, CPE, CPVC, CAP, CAB, PEI, PC, PAI	GPPS, HIPS, ABS, SAN, ASA, PMMA, IONOMER, PA6, PA66, PLA, PHB, CA	
OUTDOOR APPLICATIONS	FEP, PTFE, ETFE, PVDF, PCTFE, ECTFE, PFA, CAB, PVC (RIGID), PEI, PEEK	CAP, PET, PEN, MXD6, PA6T, PA66T, PVC (FLEXIBLE), PES	PC, PA11, PA12, PBT, PPS, PPSU	HDPE, PP, LDPE, LLDPE, HIPS, GPPS, ABS, SAN, PA6, PA66, PETG, PMMA, ASA, POM, CA, PSU
MEDICAL APPLICATIONS	POM, PEEK, PTFE, FEP, ETFE, PFA, TPU, HDPE, PEBA, PLA, PHB, MXD6, PA6T, PA66T	PP, LDPE, SEBS, SEPS, SIS, SBS, PC, COPE, ABS, PA66, PA11, PA12, SAN, PVC, PBT, PETG, PET, GPPS, HIPS, TPE-O		
FOOD APPLICATIONS	POM, PA11, PA12, ECTFE, PFA, FEP, EFEP, HDPE, LDPE, LLDPE, PET, PETG, PEBA, SIS, SBS, SEBS, SEPS, COPE, PCTFE, PEN, MXD6, PA6T, PA66T	SAN, PBT, PVC, TPE-O, TPU, GPPS, PMMA, ASA, PC, ABS, HIPS, PA6, PA66, CAB, CAP	PLA, PHB, PEEK, PTFE, PVDF, PSU, CA, PES, PPS, PPSU	
OVERALL STERILIZATION SUITABILITY	ETFE, FEP, PFA, PTFE, PEEK, PSU, PA66, PA11, PA12, COPE, PET, PETG, MXD6, PA6T, PA66T	SEBS, SEPS, PBT, PC, PP	HDPE, LDPE, POM, SIS, SBS, SAN, ABS, GPPS, HIPS, PVC, TPU, PLA, PHB	
GAMMA IRRADIATION STERILIZATION SUITABILITY	PET, PETG, PBT, SEBS, SEPS, SIS, SBS, COPE, PEBA, GPPS, HIPS, PEEK, PSU, PLA, PHB, MXD6, PA6T, PA66T		POM, ABS, TPU, PVC, SAN, HDPE, LDPE, PP, PA66, PA11, PA12, PC	ETFE, FEP, PTFE, PFA
CLARITY	PC, GPPS, PLA, COPE, PMMA, PCTFE, CAP, CAB	ECTFE, PEBA, SIS, SBS, SEBS, PVC, TPU, PET, PETG, ASA, PHB, SAN, ABS (CLARIFIED), HIPS, MXD6, PA6T, PA66T, CA, PEN, IONOMER	PBT, PEEK, ETFE, PFA, FEP, LDPE, PP (COPOLYMER), TPE-O, ABS (STANDARD), PES, LLDPE	POM, PA6, PA66, PA11, PA12, PSU, PTFE, PVDF, HDPE, PP (HOMOPOLYMER), PPS, PPSU, CPE, CPVC, PPO
DIMENSIONAL STABILITY	PC, GPPS, HIPS, PEBA, PSU, ECTFE, PEEK, PMMA, SAN, PFA, PVC (RIGID), PEI, PPO, PETG, PET, PEN, PAI, MXD6, PA6T, PA66T	POM, PVC (FLEXIBLE), PA11, PA6, PA66, PBT, PTFE, ASA, ABS, SIS, SEBS, SEPS, SBS	LDPE, PA12, PLA, PHB, PP, COPE, ETFE, CA, CAP, CAB, PVDF	HDPE, LDPE, LLDPE, IONOMER, FEP
LOW TEMPERATURE PERFORMANCE	PTFE, PFA, ECTFE, EFEP, FEP, PEEK, LDPE, LLDPE, PP (COPOLYMER), PVC (FLEXIBLE), COPE, TPE-O, SIS, SBS	HIPS, ABS, HDPE, PP (HOMOPOLYMER), PSU, PA11, PA12, PVC (RIGID), SEBS, SEPS, PEBA, PETG, TPU	POM, PA6, PA66, SAN, PC, PBT	PMMA, ASA, PLA, PHB, PET, GPPS
HEAT RESISTANCE	FEP, EFEP, PFA, PTFE, PVDF, PEEK, PSU, PPS, PES, PPSU, ECTFE, PC, PEI, PPO, PAI, PET, PEN, MXD6, PA6T, PA66T, PA6, PA66	POM, PA11, PA12, PVC (RIGID), PP (COPOLYMER & HOMOPOLYMER), PMMA, PBT, PETG, ABS	COPE, PEBA, SEBS, SEPS, SBS, SIS, TPE-O, PVC (FLEXIBLE), TPU, ASA, SAN	GPPS, HIPS, HDPE, LDPE, LLDPE, PHB, PLA
IMPACT RESISTANCE	COPE, ECTFE, FEP, PFA, ETFE, SIS, SBS, ABS, HDPE, LDPE, PA66, PA6, PC, PPO, CAB, CAP, PEBA, PVC (FLEXIBLE)	POM, PEEK, SEBS, SEPS, PVC (RIGID), CPVC, PMMA, TPU, TPE-O, PA11, PA66T, PA6T, PEN, PETG, PP (COPOLYMER), HIPS, PEI, CA, PTFE, PVDF, PCTFE, PPS, PPSU, PES	PP (HOMOPOLYMER), MXD6, PA12, PET, PBT, PSU, LLDPE	PLA, PHB, ASA, SAN, GPPS
STIFFNESS	POM, PBT, GPPS, PEEK, PVC (RIGID), ABS (STANDARD), MXD6, PA6T, PA66T, PAI, PET, PEN, PMMA, PPO, PEI, PLA, CPVC, PPS, PES	PA6, PA66, PETG, SAN, PVDF, HIPS, PHB, PP (HOMOPOLYMER), PC, CA, PCTFE, PSU, PPSU	HDPE, PP (COPOLYMER), FEP, ECTFE, ETFE, ABS (CLARIFIED), ASA, PA11, PA12, CAB, CAP, PTFE, PFA	COPE, SIS, SEPS, SEBS, SBS, TPU, TPE-O, PEBA, PVC (FLEXIBLE), IONOMER, LDPE, LLDPE
STRENGTH (COMBINED - TENSILE, COMPRESSIVE, FLEXURE)	POM, PEN, PPO, PC, PEEK, MXD6, PA6T, PA66T, PEI, PVC (RIGID), CPVC, PSU, PPS, PES, PPSU, PA6, PA66, PAI, PMMA, PA11, SAN	PLA, PVDF, COPE, PTFE, ECTFE, PCTFE, CA, CAB, PETG, PBT, PET, PA12, ASA, ABS, GPPS	HDPE, LLDPE, PP (HOMOPOLYMER), IONOMER, HIPS, CAP, TPU, PEBA, SIS, SBS, SEPS, SEBS, FEP, ETFE, PFA	LDPE, PP (COPOLYMER), PVC (FLEXIBLE)
FLEXIBILITY	HDPE, LLDPE, SEBS, SEPS, SIS, SBS, TPU, COPE, TPE-O, LDPE, PP (COPOLYMER), PTFE, PEBA, IONOMER, PVC (FLEXIBLE)	PA6, PA66, PA11, PA12, PET, PETG, PVDF, FEP, ETFE, PCTFE, ECTFE, PFA	POM, PPO, PEN, PSU, PES, PVC (RIGID), PLA, CAB, CAP, PEI, PEEK, PC, PBT, PEN, ASA, ABS, HIPS	GPPS, SAN, PMMA, PPS, PA6T, PA66T, MXD6, PAI, CA, PPSU, CPVC

ABBREVIATION	POLYMER
POLYOLEFINS	
HDPE	High-Density Polyethylene
LDPE	Low-Density Polyethylene
LLDPE	Linear Low Density Polyethylene
PP (HOMOPOLYMER)	Polypropylene
PP (COPOLYMER)	Polypropylene Copolymers
IONOMER	Carboxylated Polyethylene Copolymer Metal Salts
POLYSTYRENE/STYRENICS	
GPPS	General Purpose Polystyrene
HIPS	High Impact Polystyrene
ABS	Acrylonitrile Butadiene Styrene Copolymer
SAN	Styrene Acrylonitrile Copolymer
ASA	Acrylonitrile Styrene Acrylate Copolymer
POLYAMIDES	
PA6	Polyamide-6 (Nylon-6)
PA66	Polyamide-6,6 (Nylon-6,6)
PA11	Polyamide-11 (Nylon-11)
PA12	Polyamide-12 (Nylon-12)
PA6T	Polyamide-6/Aromatic Copolymer
PA66T	Polyamide-6,6/Aromatic Copolymer
MXD6	Nylon-MXD6
PAI	Polyamide-imide
POLYETHERS AND POLYESTERS	
PBT	Polybutylene Terephthalate
PETG	Polyethylene Terephthalate/Glycol-Modified
PET	Polyethylene Terephthalate
PEN	Polyethylene Naphthalate
PLA	Polylactic acid
PHB	Polyhydroxybutyrate
PMMA	Polymethyl Methacrylate Acrylic
PC	Polycarbonate
POM	Polyacetals (Polyoxymethylene)
PPO	Polyphenylene Oxide
PEEK	Polyetheretherketone
PEI	Polyetherimide
INORGANIC POLYMERS	
FEP	Fluorinated Ethylene-Propylene Copolymer
PFA	Perfluoroalkoxy Polymer
ECTFE	Ethylene-Chlorotrifluoroethylene Copolymer
PCTFE	Polychlorotrifluoroethylene
ETFE	Ethylene Tetrafluoroethylene Copolymer
PVDF	Polyvinylidene fluoride
PVC (FLEXIBLE)	Polyvinyl Chloride (Plasticized)
PVC (RIGID)	Polyvinyl Chloride (Not Plasticized)
CPVC	Chlorinated Polyvinyl Chloride
SULFONATED POLYMERS	
PSU	Polysulfone
PPSU	Polysulfone
PES	Polyethersulfone
PPS	Polyphenylenesulfide
ELASTOMERS	
TPU	Thermoplastic Polyurethane Elastomers
COPE	Thermoplastic Copolyester Elastomers
PEBA	Polyether-block-Amide (Pebax)
SIS	Styrene-Isoprene-Styrene Triblock Elastomer
SBS	Styrene-Butylene-Styrene Triblock Elastomer
SEPS	Styrene-Ethylene/Propylene-Styrene Triblock
SEBS	Styrene-Ethylene/Butylene-Styrene Triblock
TPE-O	Olefinic Thermoplastic Elastomer