
XPM Plastics Compounding, LLC

Comprehensive Capabilities



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Polymer Processing Capabilities

Resin Groups	Resin Types
Polyolefins	LLDPE, LDPE, HDPE, PP, EVA
Styrenics	PS, HIPS, ABS, SAN, SBC, ASA
Polyamides	Nylon 6, 6/6, 6/12, 11, 12, custom blends
Polyurethanes	All Typical TPU Grades, and Custom TPU Blends
Polyacetals	POM
Poly(methyl methacrylate)	PMMA
Polycarbonates	PC, PCABS, PC alloys
Polyesters	PET, PBT
Thermoplastics Elastomers	Pebax, Hytrel, COPEs, SBCs, TPV, Custom Shore 20 to 100A
Biodegradable / Biocompatible	PLA, PLLA, Cellulose, Other soft Elastomerics
Fluoropolymers	PTFE, PCTFE, PVDF, FEP, EFEP, ETFE, ECTFE, PFA
High Heat Engineering Polymers	PSU, PPSU, PPS, PEEK, PEI, PES, LCP

All Engineering Resins can be Pulverized





Additives & Masterbatches

Additive	Typical Loading Ranges (%)	Additive	Typical Loading Ranges(%)
Conductive Black	2 to 20	Flame Retardant Masterbatches	20 to 60
Activated Carbon Black	2 to 25	UV Masterbatches	10 to 60
Carbon Fiber	5 to 40	Heat / Antioxidant Masterbatches	10 to 60
Nano Carbon	1 to 20	Processing Aids Masterbatches	10 to 60
Clay	5 to 30	Custom Color Masterbatches	1 to 60
Graphite / Graphene	5 to 30	Antimicrobial Masterbatches	5 to 40
ESD / IDP Polymers	5 to 30	Slip / Lubrication Aids	1 to 10
Glass Fiber	10 to 50	Siloxane / Silicone	1 to 10
Hollow Glass Spheres/Bubbles	5 to 30	Impact Modifiers	5 to 20
Barium Sulfate (BaSO ₄)	5 to 60	Antistatics	1 to 10
Bismuth Subcarbonate (Bi ₂ O ₂ (CO ₃))	10 to 60	Clarifying Agents	1 to 25
Bismuth Oxychloride (BiOCl)	10 to 60	Fragrance Masterbatches	Application Specific
Bismuth Trioxide (Bi ₂ O ₃)	10 to 75	Crosslinking	
Strontium Titanate (SrTiO ₃)	10 to 60	Barrier Properties	
Tungsten	10 to 92	Overmold / Bonding	
Mineral Filled	20 to 60	3D Printing	
Heavy Metal Filled	20 to 96	Laser Marking	





In-House Testing and Analytical Capabilities

Melt Flow Index (MFI)	Material flow characterization and process validation
Moisture Analysis	Moisture content testing and drying validation
Color Spectrophotometry / Color Matching	Color measurement and consistency verification
Surface Hardness	Material hardness evaluation
Density / Specific Gravity	Density measurement and material verification
Tensile Strength & Elongation	Mechanical performance evaluation
Tear Strength	Tear resistance testing
Flex Modulus	Stiffness and flexural performance
Rheology	Flow behavior and processing characteristics
Surface & Volume Resistivity	Electrical resistivity testing
Thermal Analysis (DSC & TGA)	Thermal properties, degradation, and composition analysis
FTIR Spectroscopy	Material identification and chemical characterization
High-Resolution Digital Microscopy & Dispersion Measurement	Dispersion quality, particle distribution, and defect analysis
Film & Sheet Analysis	Evaluation of film and sheet samples for quality and performance
Ash Content Analysis	Determination of inorganic filler and residual content
Abrasion Resistance	Wear resistance evaluation
Strip Die Extrusion	Laboratory extrusion trials and process evaluation
Lab Vacuum Oven	Controlled drying and material conditioning





Production Equipment

- Twin Screw Extruders
Sizes (mm) **20, 32 (x2 for specialty medical), 35, 40, 52, 60, 75**
- Underwater Pelletizers
- Strand Pelletizers
- Air Cooled Pelletizer
- Two Outside Silos for TPU Resin
- Small Lab Film Extruder
- Pulverizers for all Thermoplastics
- Grinders
- Ribbon Blender (5,000 to 7,000 lbs)
- Desiccant Dryers – 13 units (50 lbs to 6,000 lbs)
- Dedicated stainless steel desiccant dryers for the two **(2) 32mm medical lines**
- Advanced Loss-in-Weight Feeders for Precise Material Feeding





XPM Plastics Compounding

Engineered for your success

We're here to support your next project, whether you're developing a new formulation or improving an existing process.

Our team is ready to **collaborate, problem-solve, and deliver solutions** tailored to your exact requirements.

Reach out to us to get started.



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