
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 testing for material flow characterization and process validation
Moisture Analysis	Moisture analysis and drying validation to support material preparation
Color Matching	Color matching using spectrophotometry for consistent visual standards
Surface Hardness	Surface hardness evaluation for material performance assessment
Film and Sheet Analysis	Analysis of film and sheet samples for material and quality review
Ash Content	Ash content analysis to evaluate filler or residual inorganic content
High Resolution Digital Microscope - Dispersion Measurement	Microscopic analysis to evaluate material dispersion and uniformity, helping ensure consistent quality and performance





Production Equipment

- **Twin Screw Extruders**
Sizes (mm): 20, 32, 35, 40, 60, 75
- **Underwater Pelletizers**
- **Strand Pelletizers**
- **Air Cooled Pelletizer**
- **Ribbon Blender**
- **Pulverizers**
- **Grinders**
- **Dessicant Dryers**





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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