
XPM Plastics Compounding

Comprehensive Capabilities



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+1 (978) 750 - 0080

1 Sculley Rd, Ayer, MA 01432

www.xmplastics.com



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

Type	Typical Loading Ranges (%)
Custom Color Masterbatches (Industrial or Medical)	1 to 60 (%)
Conductive Black	2 to 20 (%)
Activated Carbon Black	2 to 25 (%)
Carbon Fiber	5 to 40 (%)
Nano Carbon (CNTs)	1 to 20 (%)
Clay	5 to 30 (%)
Graphite / Graphene	5 to 30 (%)
ESD / IDP Polymers	5 to 30 (%)
Glass Fiber	10 to 50 (%)
Glass Bubbles / Hollow Glass Spheres	5 to 30 (%)
Barium Sulfate (BaSO ₄)	5 to 60 (%)
Bismuth Subcarbonate (Bi ₂ O ₂ (CO ₃))	10 to 60 (%)
Bismuth Oxychloride (BiOCl)	10 to 60 (%)
Bismuth Trioxide (Bi ₂ O ₃)	10 to 75 (%)
Strontium Titanate (SrTiO ₃)	10 to 60 (%)
Titanium Dioxide (TiO ₂)	1 to 50 (%)





Additives & Masterbatches

Type	Typical Loading Ranges (%)
Tungsten	10 to 92 (%)
Mineral Filled	20 to 60 (%)
Heavy Metal Filled	20 to 96 (%)
Nano Carbon (CNTs)	1 to 20 (%)
Flame Retardant Masterbatches	20 to 60 (%)
UV Masterbatches	10 to 60 (%)
Heat / Antioxidant Masterbatches	10 to 60 (%)
Processing Aids Masterbatches	10 to 60 (%)
Antimicrobial Masterbatches	5 to 40
Slip / Lubrication Aids	1 to 10
Siloxane / Silicone	1 to 10
Impact Modifiers	5 to 20
Antistatics	1 to 10
Clarifying Agents	1 to 25





Additives & Masterbatches

Type	Typical Loading Ranges (%)
Fragrance Masterbatches	Application Specific
Crosslinking	
Barrier Properties	
Overmold / Bonding	
3D Printing	
Laser Marking	





In-House Testing and Analytical Capabilities

Type	Typical Loading Ranges (%)
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





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Production Equipment

- **Twin Screw Extruders**
- **Sizes (mm): 20, 32, 35, 40, 60, 75**
- **Underwater Pelletizers**
- **Strand Pelletizers**
- **Ribbon Blender**
- **Pulverizers**



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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.



Call or Text: +1 (978) 750 - 0080



info@xpmplastics.com



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