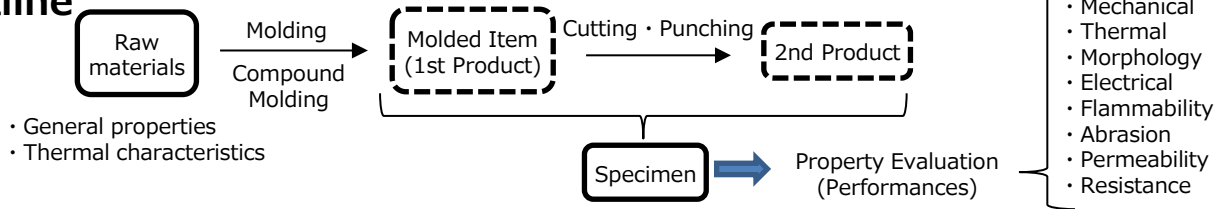


Polymer Material Specimen Preparation and Testing

Outline



Materials

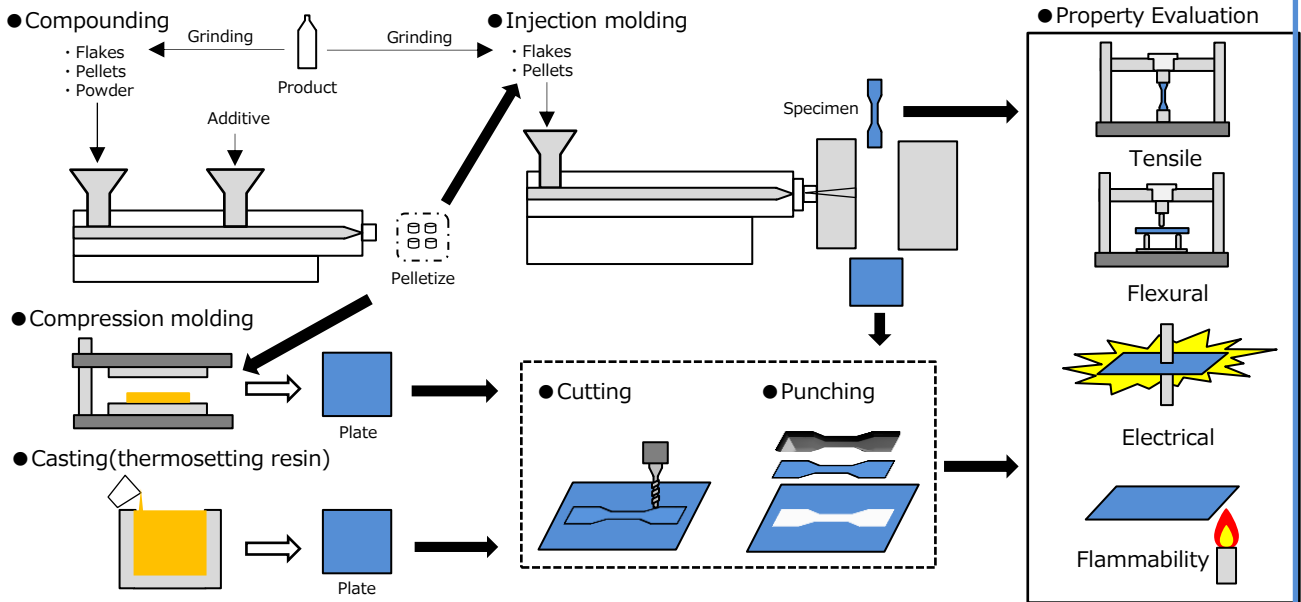
- Thermoplastic resin

Type	Polymer
General Plastics	PP, PE, PS, ABS
Gen. EPs	PC, POM, PA, PBT
Super EPs	PPS, PEEK, LCP, PES, PAI
Elastomers	TPU, TPV, SEBS

- Thermosetting resin
Epoxy, Phenolic, Unsaturated Polyester Resins, etc.

Form of Materials	Preparation (Molding) Method
Pellets, Flakes	Injection & Compression
Powder	Compounding → Injection & Compression
Products	Grinding or Grinding + Compounding → Injection & Compression
Thermosetting Resins	Casting

Workflow: Specimen Preparation & Property Evaluation



Available Injection Molding

Type	Shapes
Dumbbell	JIS K 7139 TypeA1, ASTM D638 TypeI ASTM D1822 TypeS, TypeL, and more
Strip	80×10 mm, 127×13 mm
Plate	80×80 mm, 100×100 mm, 150×150 mm, 350×100(mm)
Disc	Φ100 mm, φ50 mm

Available Cutting Processes

Type	Shapes
Dumbbell	JIS Dumbbell, ASTM Dumbbell, and more
Strip	80×1.5 mm~
Plate	5×5 mm~
Disc	Φ10 mm~