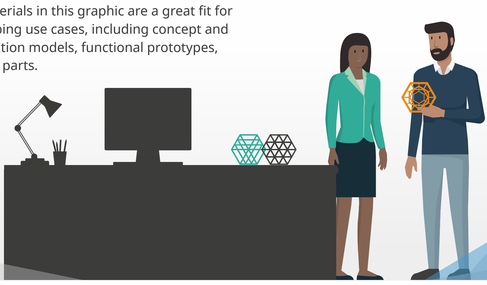
3D SYSTEMS
Additive Manufacturing Solutions

Advanced Materials for Rapid Prototyping

Plastic 3D printing materials are diverse and versatile.

The materials in this graphic are a great fit for prototyping use cases, including concept and visualization models, functional prototypes, and test parts.



3D printing gives you the design fidelity, speed, and cost you want; the right material selection gives you the look and feel you need. Available rapid prototyping materials include:

GENERAL PURPOSE

Rubber-like elastomers to rigid and ultra-tough plastics

GREAT FOR:

- Rapid prototyping
- Rapid tooling
- Master patterns

TOUGH & DURABLE

Rugged nylon, composite, ABS-like, and polypropylene-like parts

GREAT FOR:

- Snap-fit assemblies
- Living hinges
- Functional prototypes

TRANSPARENT

Rigid, thermal resistant, and high clarity parts

GREAT FOR:

- Transparent assemblies
- Casting patterns
- Visualization models

FULL-COLOR

Monochrome to full CMYK parts

GREAT FOR:

- Concept models
- Photorealistic parts

HIGH TEMPERATURE

Rigid and stable thermal resistant parts

GREAT FOR:

- Under-the-hood components
- Hot fluid flow visualization
- Master patterns

BIOCOMPATIBLE

USP Class VI capable and/or ISO 10993 capable parts

GREAT FOR:

- Digital dentistry
- Certain medical applications

3D PRINTING IS DEVELOPING FAST.

With ever-evolving technologies and materials, the range of addressable applications across industries has never been so varied or offered such huge opportunities.

Get metal part prototypes fast with castable materials.

3D printing materials for casting include:

OPTIMIZED CASTING PLASTICS

100% WAX FITTING INTO EXISTING FOUNDRY WORKFLOWS

OTHER EXPENDABLE, FOUNDRY-FRIENDLY OPTIONS

Get the complete guide for a full breakdown of rapid prototyping material options.

Download this free materials guide to help you find the right materials for your rapid prototyping project.

Download Materials Guide