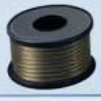
Resources

- Prusa Knowledge Base
- All3DP Printing Tutorials
- 3DPPGH Discord Server - Local 3D Printing Club

3D Printing Filaments Guide

Filament Type	Key Characteristics	Strength	Flexibility	Ease of Printing	Best Uses
 PLA	Biodegradable, easy to print	Medium	Low	✓	Prototypes, models, toys
 ABS	Tough, heat-resistant	High	Medium	⚠ Moderate	Functional parts, enclosures
 PETG	Strong, water-resistant	High	Medium	✓	Mechanical parts, containers
 TPU	Flexible, rubber-like	Medium	Very High	! Hard	Phone cases, wearables
 Nylon	Very strong, wear-resistant	Very High	Medium	! Hard	Gears, tools, hinges
 ASA	UV & weather resistant	High	Medium	⚠ Moderate	Outdoor parts, signage
 Poly-carbonate	Heat-resistant, durable	Very High	Low	! Hard	Engineering, high-temp
 PVA	Water-soluble support	Low	Low	✓	Support material (dissolves)
 HIPS	Limonene-soluble support	Medium	Low	⚠ Moderate	Prototyping, support material
 Composites	Carbon Fiber, Wood-filled	High (Stiff)	Low	Moderate	Strong, aesthetic parts

Quick Tips

- Beginner: PLA or PETG
- Flexible: TPU
- Strong: Nylon, PC
- Outdoor: ASA

Save for Reference!

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