

Materials Information				Multi material printing can be used in certain circumstances.	
Filaments		Cost	Notes	Extra Notes	
Polylactic Acid (PLA)		\$20-40/kg	Cheapest	Most cost-effective, biodegradable but not durable at high temperatures	
Polyethylene Terephthalate Glycol (PETG)		\$30-50/kg	Must be kept totally dry	Often stronger and more flexible than either PLA or ABS	
Acrylonitrile Butadiene Styrene (ABS)		\$30-60/kg	Requires Ventilation	Heat Resistant, Heated Bed / Enclosed Chamber Preferable	
Thermoplastic Polyurethane (TPU)		\$40-60/kg	Flexible and durable	Phone cases, gaskets, many wearable items	
Nylon		\$50-100/kg	Resistant to wear	Ideal for parts that need to endure lots of stress	
Metal Filaments (for FDM printers)		\$100-300/kg	Metallic Finish, more durable	Typically a blend of metal powder and plastic such as copper or bronzeFill	
Specialty Materials					"+% cost to customer"
Carbon Fiber Reinforced Filaments		\$60-80/kg	Standard (CF-PLA)	Parts requiring a high strength-to-weight ratio	~150-200%
		\$70-90/kg	CF-PETG		
		\$120-150/kg	CF-Nylon		
		\$150-200/kg	Professional Composites		
Ceramic Filaments				High heat applications and artistic works	~200-250%
		\$80-100/kg	Basic Ceramic Infused PLA		
		\$150-200/kg	Industrial Composite Ceramics		
		\$200-300/kg	High-end Technical Ceramics		
Polycarbonate (PC)		\$50-70/kg	Standard PC	Very Strong, High heat, and industrial applications	~125-150%
		\$60-80/kg	PC-ABS Blends		
		\$80-100/kg	High Temperature PC		
		\$90-120/kg	Flame-retardant		
Polypropylene (PP)		\$10-30/kg	Low melting point	Lightweight, chemically resistant, and flexible. Resistant to bending (fatigue resistance).	~140-160%
Polyamide (PA)			Highly Durable and resistant to wear	Frequently used for making gears, bearings, and mechanical parts. Excellent chemical resistance, particularly to oils, greases, and solvents. Flexible and abrasion-resistant, but it can absorb moisture from the air, which can affect print quality.	~150-200%
		\$40-100/kg	High Temperature PC		
Acrylic Butadiene Styrene (ABS)		\$25-50/kg	Transparent and/or smooth finish	Used in producing transparent parts and for applications where surface finish quality is important.	~130-170%
Acrylonitrile Styrene Acrylat (ASA)		\$40-90/kg	Often used for outdoor, or automotive parts; as it resists degradation from UV exposure	Very similar to ABS (Acrylonitrile Butadiene Styrene) but with better UV stability. UV-resistant and weather-resistant, meaning it's great for outdoor applications. Easier to print with than ABS due to less warping.	~150-170%
Nozzles					
Nozzles last for approximately 100-200 printing hrs				ABS and Nylon leave the most residue on nozzles, requiring maintenance	