

# TABLE OF FILAMENT APPLICATIONS

FILAMENT GROUP	FILAMENT NAME	EXTRUSION TEMP.	PLATFORM TEMP.	CHAMBER TEMP.	ENDURANCE	DURABILITY	FLEXIBILITY	EASE OF PRINTING	SUPER POWER	APPLICATION
BASIC FILAMENTS	ABS-42	235-255°C	80-110°C	60-70°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Durability and a smooth finish	Final parts and prototyping
	ASA-39	240-260°C	80-110°C	60-70°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Resistant to UV radiation	Elements exposed to weather conditions
	PET-G-32	230-250°C	60-90°C	without a heated chamber	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Approved for contact with food	Final parts for special use
	PLA-36	180-210°C	25-60°C	without a heated chamber	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Biodegradable	Prototyping
	PLA-WOOD	180-210°C	25-60°C	without a heated chamber	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Wooden finish	Prototyping
	Ultrafuse® ABS Fusion+	240-260°C	80-110°C	55°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Improved layer bonding	Geometrically complex models
TECHNICAL FILAMENTS	PC-ABS-47	250-280°C	100-130°C	60-70°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Increased temperature resistance	Final parts
	TPU-93A	210-230°C	40-50°C	without a heated chamber	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Flexibility and chemical resistance	Final parts for special use
	PA-6/66HD	240-260°C	0-80°C	without a heated chamber	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Abrasion resistance	Final parts
	PA-12	250-290°C	0-100°C	50°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Mechanical resistance	Final parts with increased resistance
	3DXSTAT™ ESD-PETG	230-260°C	60-90°C	without a heated chamber	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Electrostatic resistance	Final parts used in electronics
	PP	200-220°C	0-110°C	without a heated chamber	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Light and flexible, chemically and mechanically resistant	Elements requiring chemical and mechanical resistance

# TABLE OF FILAMENT APPLICATIONS

FILAMENT GROUP	FILAMENT NAME	EXTRUSION TEMP.	PLATFORM TEMP.	CHAMBER TEMP.	ENDURANCE	DURABILITY	FLEXIBILITY	EASE OF PRINTING	SUPER POWER	APPLICATION
SPECIALIST FILAMENTS	CF-PA-12	250-290°C	40-100°C	50-70°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Temperature resistance	Final parts exposed to extreme working conditions
	THERMEC™ZED	300-330°C	100-130°C	70°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Chemical resistance	Elements exposed to temperatures up to 200 °C
	XSTRAND™ GF30-PA6	250-290°C	40-100°C	50-70°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Mechanical resistance, low conductivity	Final parts for special use
	PEKK-A	370-380°C	110-130°C	60-80°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Extreme mechanical strength	Products exposed to extreme working conditions
	PMMA	240-270°C	60-120°C	40-60°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	UV radiation transmittance, transparency	Glass replacement
	ABS V0	235-255°C	80-110°C	60-70°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Self-extinguishing, resistant to fire	Elements exposed to fire
	PET-G Carbon	220-260°C	60-100°C	without a heated chamber	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	PET-G with increased impact strength	Prototyping test models
	ABS FC	235-255°C	80-110°C	60-70°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Biocompatibility, food contact possible	Medicine, food industry
	ABS-ESD	230-250°C	80-100°C	60-70°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Antistatic, durability	Electrical industry, housings of electrical components
	PP-C	220-260°C	40-80°C	without a heated chamber	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Low hygroscopicity, chemically inert	In a chemical environment and in the needs of mechanical strength
SUPPORT FILAMENTS	HIPS-20	220-240°C	70-110°C	without a heated chamber	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Breakaway support material	Basic support material
	ODS-20	230-240°C	80-110°C	50-70°C	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Soluble in alkaline solution	Support material for industrial filaments
	PVA-20	200-230°C	50-90°C	without a heated chamber	●●●●●●●●	●●●●●●●●	●●●●●●●●	●●●●●●●●	Water-soluble	Support material for PLA and Nylon