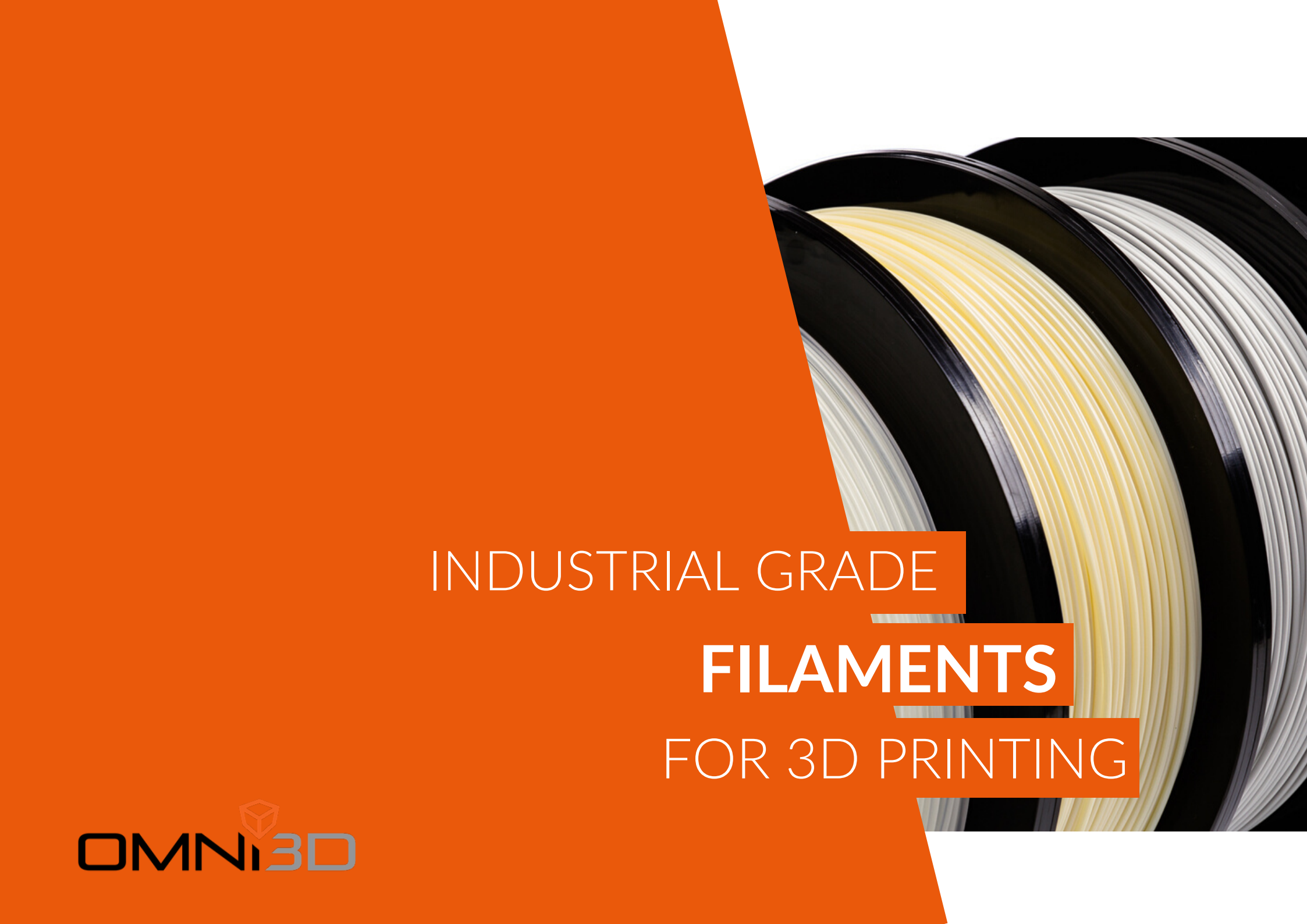




INDUSTRIAL GRADE

FILAMENTS

FOR 3D PRINTING

OMNI³D

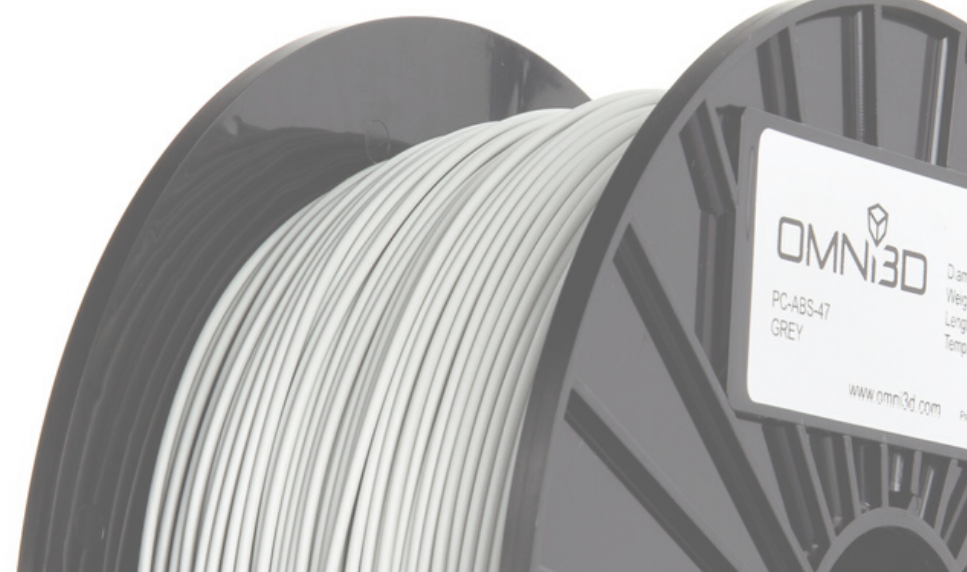
BASIC FILAMENTS



Basic filaments characterized by the best price-quality ratio are easy to print, even for those starting their adventure with 3D printing. The range of these products is characterized by a variety of chemical and mechanical properties. So everyone can find something for themselves. If you want to print a prototype, make a production or service part and you are not an experienced user, choose a filament from the basic group.

GROUP OF FILAMENTS	FILAMENTY	AVAILABLE COLOURS	PRINT TEMP. °C	BED TEMP. °C	CHAMBER TEMP. °C	STRENGHT	DURABILITY	ELASTICITY	EASY PRINTING	SUPER POWER	APPLICATION
BASIC FILAMENTS	ABS-42		235-255°C	70-110°C	65°C					Strength and smooth	Final parts and prototyping
	ASA-39		240-260°C	80-90°C	without heating					UV resistance	Elements exposed to weather conditions
	PLA-36		180-210°C	25-60°C	without heating					Biodegradable	Prototyping
	Ultrafuse ABS Fusion+		240-260°C	100-110°C	65°C					Increased temperature resistance	For complete geometry

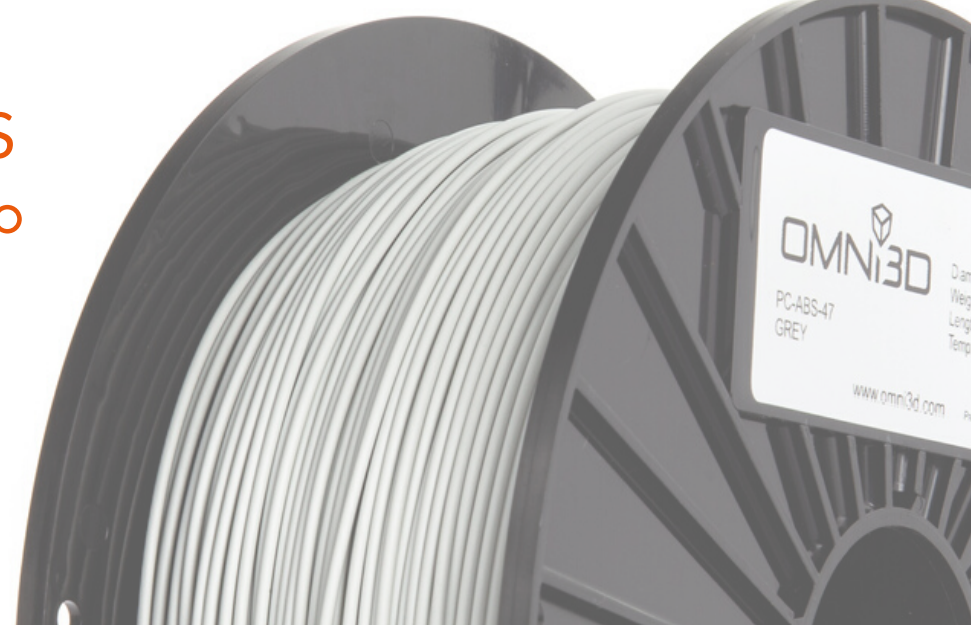
TECHNICAL FILAMENTS



Technical filaments are intended for more industrial applications. They are characterized by significantly increased chemical and mechanical strength, often unique features related to conductivity, insulation or flexibility. They often contain modifications (e.g. Nylon) that take into account that their applications are used in very difficult operating conditions. These are filaments that require a broader knowledge of printing and its post-process properties that are required to obtain the desired characteristic.

GROUP OF FILAMENTS	FILAMENTY	AVAILABLE COLOURS	PRINT TEMP. °C	BED TEMP. °C	CHAMBER TEMP. °C	STRENGTH	DURABILITY	ELASTICITY	EASY PRINTING	SUPER POWER	APPLICATION
TECHNICAL FILAMENTS	PC-ABS-47		240-260°C	80-110°C	60-70°C					Strength and smooth	Final parts
	TPU-93A		190-210°C	45-50°C	without heating					Elasticity and technical resistance	Final parts for special applications
	PET-G-32		230-250°C	0-90°C	without heating					Approved for contact with food	Final parts for special applications
	PA-6/66HD		220-250°C	0-80°C	without heating					Elasticity and durability	Final parts
	PA-12		250-290°C	75-100°C	50°C					Mechanical resistance	Final product with increased resistance
	3DXSTAT ESD PETG		230-260°C	60-90°C	without heating					Electrostatic resistance	Final product used in electronics

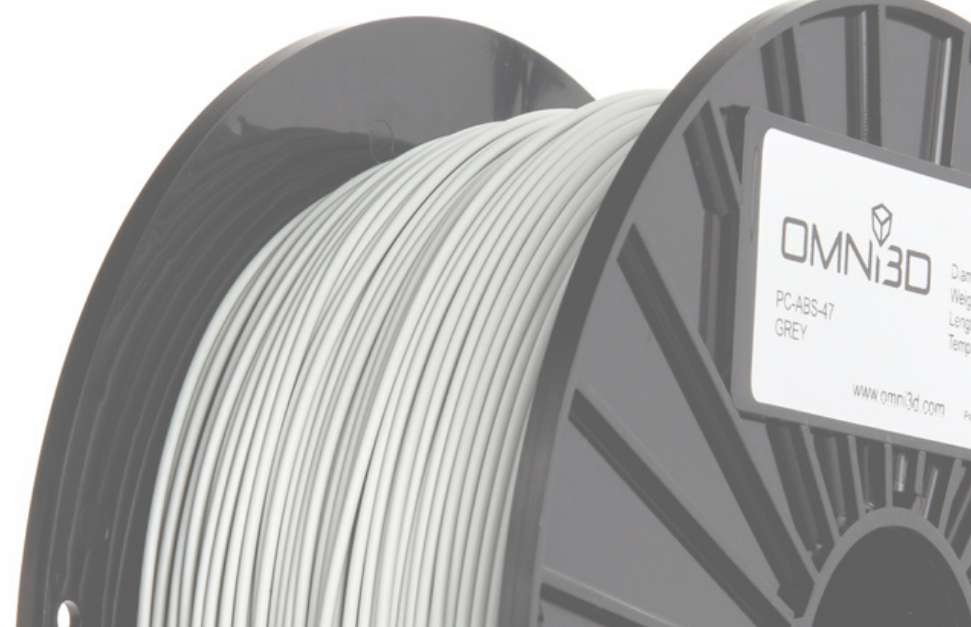
ADVANCED TECHNICAL FILAMENTS



Advanced technical filaments also known as the "elite." Prints made from these filaments are characterized by extreme chemical and mechanical resistance. They find their application in the most demanding circumstances - in surgery, advanced orthopedics or dentistry, the production of aircraft or even space rockets. They also require many years of experience in 3D printing as well as special printing conditions and often complex post-process activities.

GROUP OF FILAMENTS	FILAMENTY	AVAILABLE COLOURS	PRINT TEMP. °C	BED TEMP. °C	CHAMBER TEMP. °C	STRENGHT	DURABILITY	ELASTICITY	EASY PRINTING	SUPER POWER	APPLICATION
TECHNICA FILAMENTS	CF-PA12		250-290°C	80-100°C	50°C					Chemical and temperature resistance	The final product exposed to extreme operating conditions
	THERMEC ZED		300-330°C	70-110°C	70°C					Chemical and temperature resistance	Elements exposed to temperatures up to 200°C
	XSTRAND GF30-PA6		220-280°C	80-110°C	50°C					Stiffness, strength and electrical insulation	Functional prototyping and industrial applications
	PEKK-A		370-380°C	110-130°C	60-80°C					UL94 V0 fire resistance	The final product exposed to extreme operating conditions

SUPPORT FILAMENTS



As one of the features of 3D printing is the inability to print "in the air" - in the range of filaments there are so-called Supporting filaments that "support" the printout at the most dangerous points, the so-called "bridges". They are also used when printing "thin walls" to prevent deviations. These filaments can be breakable, water-soluble or soluble in chemicals - everything depends on the individual needs and characteristics of the printed element.

GROUP OF FILAMENTS	FILAMENTY	AVAILABLE COLOURS	PRINT TEMP. °C	BED TEMP. °C	CHAMBER TEMP. °C	STRENGHT	DURABILITY	ELASTICITY	EASY PRINTING	SUPER POWER	APPLICATION
TECHNICA FILAMENTS	HIPS-20		210-230°C	70-90°C	without heating					Impact resistant and easy to print	Basic and supporting material
	ODS-20		210-220°C	60°C	without heating					Soluble in a mild alkaline solution	Supporting material for industrial filaments
	WS-20		200-220°C	90°C	55°C					Water-soluble	Geometric models
	PVA-20		200-230°C	60°C	without heating					Dimensional stability	Supporting material for PLA and Nylon



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