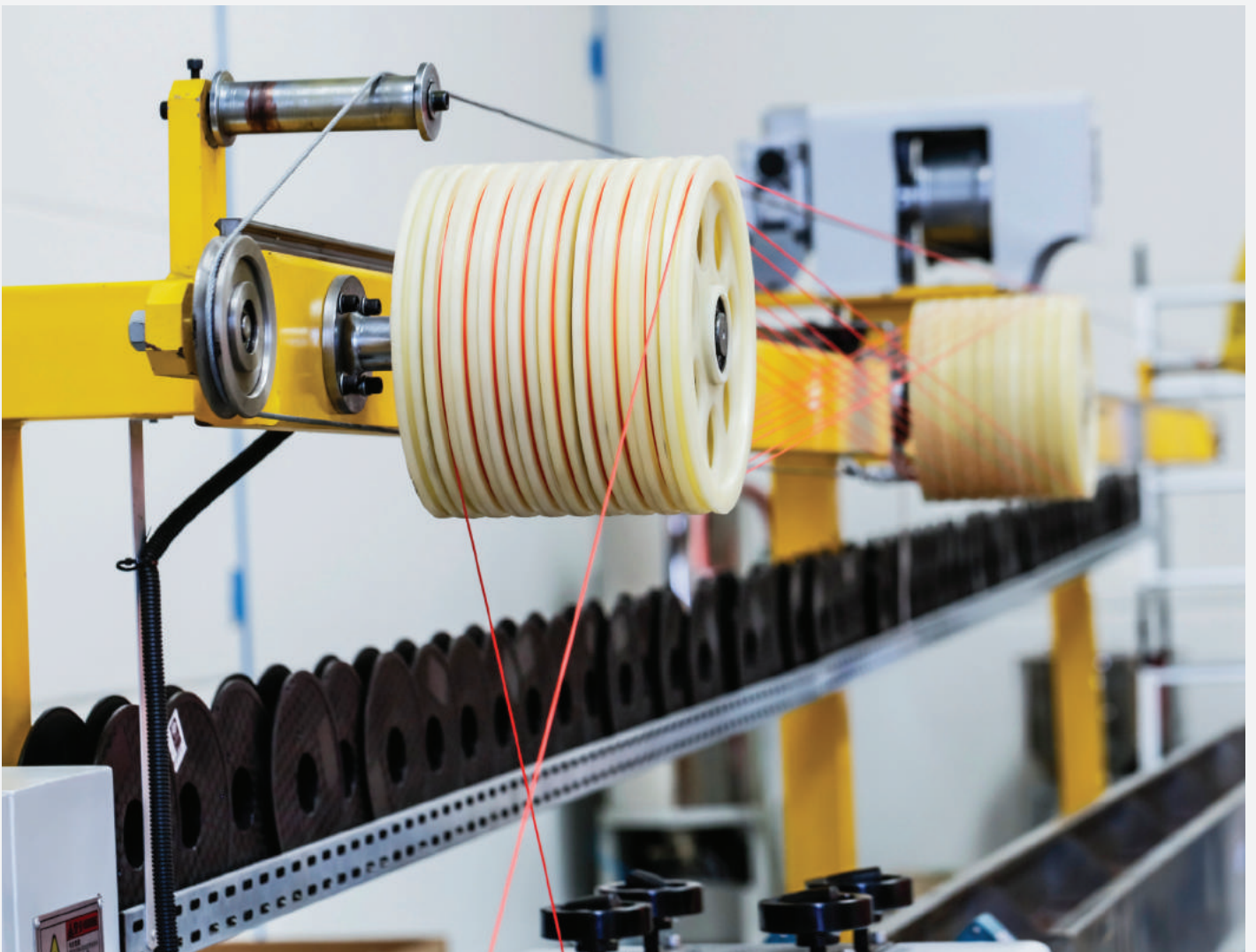


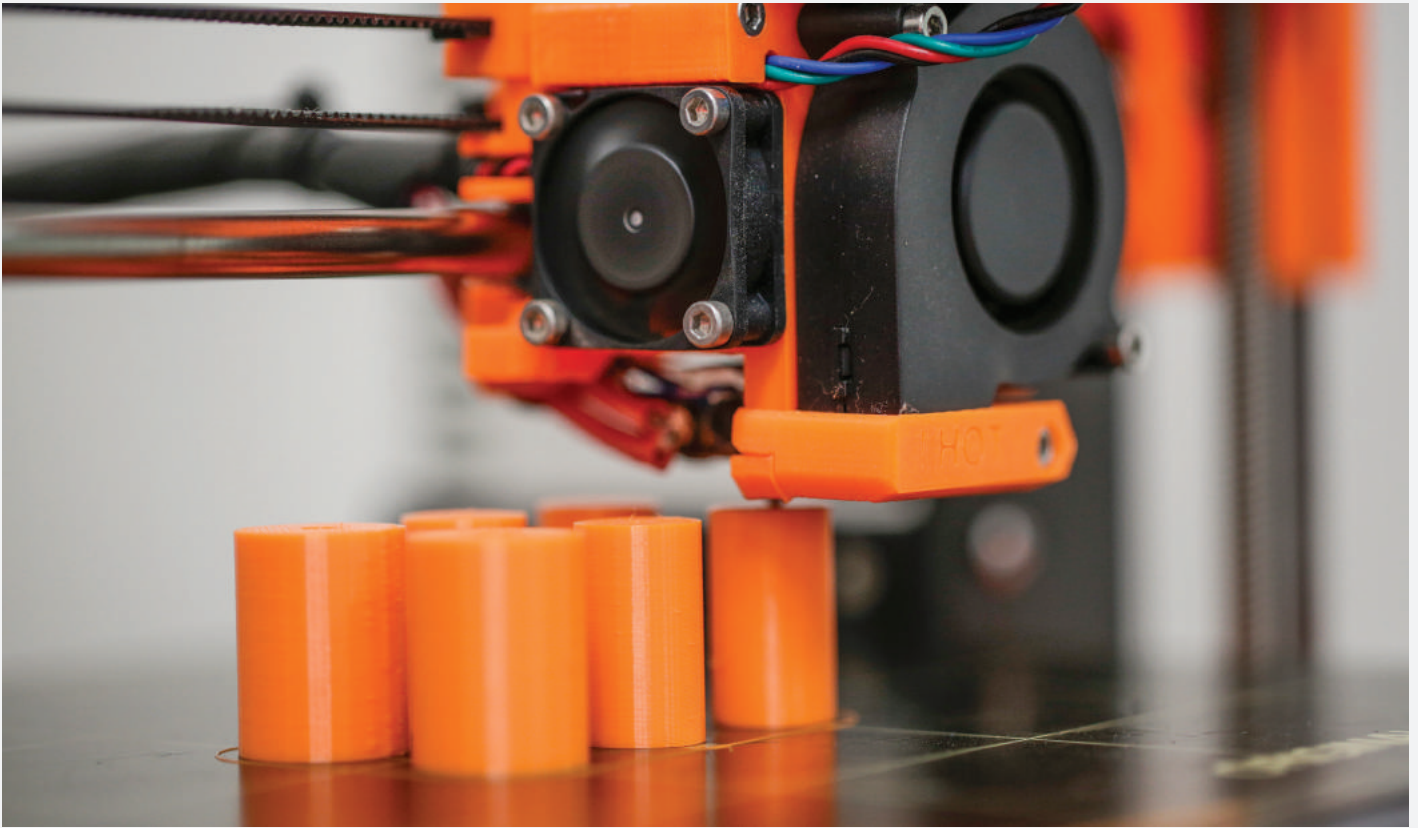


FILATECH
Making It Better

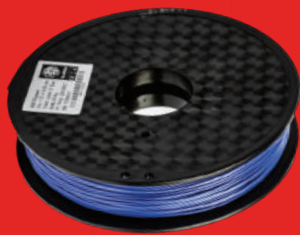
WE PRODUCE
HIGHEST QUALITY
3D FILAMENTS

www.fila-tech.com





**WE ARE
A TRUSTED,
EXPERT SUPPLIER
WHO EXERCISES
DUE DILIGENCE
AND INTEGRITY**



WHO WE ARE?

We as Shores 3D Printing Industries FZC are a manufacturing facility registered and located in Technology Park of RAK in UAE. Utilizing expert and experienced manpower in plastic compounding, and the most up to date manufacturing technology we are developing and manufacturing normal and special grades of plastic filaments for 3D printing.

WHAT DO WE DO?

We produce the highest quality 3D filaments - the consumable raw material for use in 3D printing industries specifically for 3D printers which are using FDM technology (Fused Deposition Modeling).

WHAT IS THE POINT OF WHAT WE DO? WHY ARE WE SPECIAL?

We are experts in plastics and have been servicing the plastics industry since 2005. We have key experience in manufacturing of master batch and engineering plastics compounds, and we have thus developed a depth of knowledge and expertise within our industry that constantly surpasses our competition, and more importantly - our customer's expectations.

IF OUR ORGANISATION DID NOT EXIST, WHAT WOULD THE WORLD MISS?

We are a trusted, expert supplier who exercises due diligence and integrity in understanding our customers' exact needs and provides them the very best quality solutions and ongoing support. We are a company of passionately motivated staff who are end-users and have complete empathy for customer needs. Because we are professionals in the plastics industry, we possess complete clarity and ability in solving customer problems and needs.

WHAT ARE OUR HIGHEST CORE VALUES?

We started FilaTech because we are ourselves end-users. We are 3D printing enthusiasts and hobbyists. FilaTech was created for very selfish reasons. Honestly? We were fed up with purchasing second-rate products, from overseas exporters that were not fit for purpose and had no customer service or money back options. As experts and knowledge leaders in plastics, it became increasingly apparent that to get the superb quality for the optimal price we needed to pursue our own passion for 3D print, we had no choice but to start developing the very best printing filament ourselves. We share our innovative products with fellow suppliers and enthusiasts, so they do not have to go through the same experience as ours.



WHAT IS BEING ACHIEVED? WHAT ARE WE CELEBRATING?

We are recognized as a global presence and a new supply hub from the GCC that seamlessly delivers high-quality products. We constantly innovate to improve products and stay abreast of emerging 3D print technologies - and so our customers trust us to deliver the very best solutions for the best price. Underpinning our products is a support service that is approachable, knowledgeable, transparent and honest.

WHAT DO WE WANT TO ACHIEVE WITH THE BUSINESS?

We want to achieve recognition as a market leader through innovative and reliable products, expertise and technologies that enhance people's lives and create beauty.

WHAT IS INSPIRING ABOUT US?

Through our deep understanding, experience, and passion for excellence in plastics - we embrace and drive change to enhance the world and people's lives.

TO WHAT NEEDS DO WE RESPOND?

We are customer driven. We develop superior products and technologies because our customers and the industry as a whole demand and deserve the best.

WHAT ARE OUR UNWAVERING BELIEFS?

We communicate openly and actively, encouraging dialogue, conversations and through constant learning we embrace change and because of this; we drive change.

IN THE END, FOR WHAT WILL WE BE REMEMBERED?

We aspire to excellence in all areas and we are only successful because of our people and culture. We will be remembered as a progressive, innovative, honest and approachable brand.



INFORMATION SUMMARY

- 1. OUR COMPANY'S VALUES**
Integrity. Collaboration. Innovation.
Knowledge.
- 2. WHAT THE BUSINESS DOES**
Provide expertise and technologies that
enhances peoples lives and creates
beauty.
- 3. HOW WE ACCOMPLISHES IT**
Through constant learning, we embrace
change and because of this; we drive
change.
- 4. OUR INTENTION FOR CLIENTS**
We are customer driven. We develop
superior products and technologies
because our customers deserve the best.
- 5. OUR IDEAL CLIENT**
Medium and large trusted retailers.
Enthusiastic early adopters



OUR MISSION

“WITH INTEGRITY, INNOVATION AND KNOWLEDGE, WE PROVIDE SUPERIOR EXPERTISE AND TECHNOLOGIES TO DRIVE THE 3D PRINTING INDUSTRY, THIS ENHANCES PEOPLES LIVES AND CREATES BEAUTY.”



OUR VISION

WE WILL DELIVER INNOVATIVE PRODUCTS AND SERVICES THAT MAKE OUR WORLD BETTER PLACE. WE WILL ACHIEVE THIS THROUGH CONTINUING ADHERENCE TO OUR 4 KEY BRAND VALUES:

- INNOVATION
- KNOWLEDGE
- INTEGRITY
- COLLABORATION

FACTORY

We have a fully integrated and automated PLC controlled production line with a production capacity of over 20,000 KGPM. The production line includes the following.

RAW MATERIAL HANDLING

Raw Material Storage Area
Weighing Area
Drying & Dehumidification
Pneumatic Conveying System

MIXING

High-Speed Mixing

EXTRUDING

Dryer / Preheater
Single Screw Extruder

WATER HEAT TREATMENT

Temperature Controlled Hot Water Bed
Cooling Water Bed
Water Chiller

FILAMENT SIZE/TOLERANCE CONTROL

PLC Controlled Hull-off Machine
Tension Controlled Buffer

SPOOL CONVEYING

Lost-in-Weight Spool Delivering System

WINDING

Double Spool PLC Controlled Winding Machine
Sample Making Winder Machine

QUALITY CONTROL

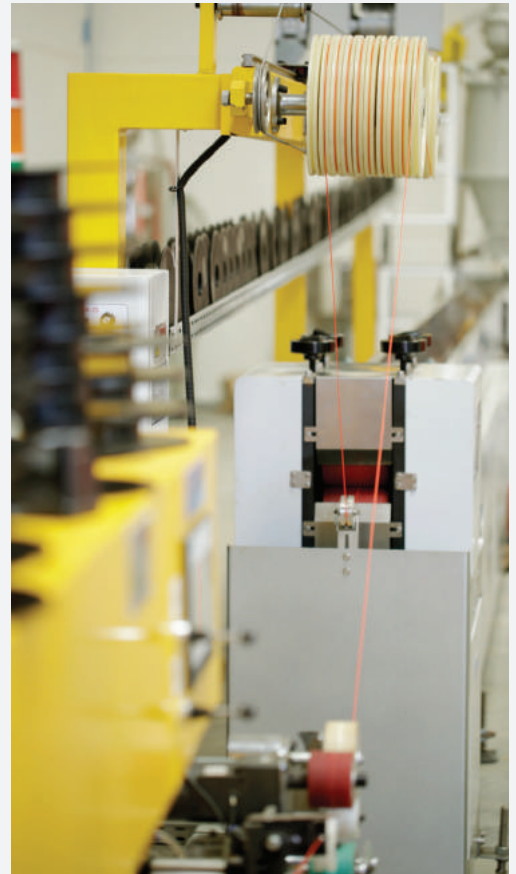
Tolerance Control
Roundness Control
Color Consistency Control
Printing Quality Control

PACKAGING

Label Making
Packaging Tables
Vacuum Packaging

PRODUCT HANDLING AREA

Master Box Packaging
Pallet Making
Storage and Dispatching Area



PRODUCTS & SERVICES

PRODUCT RANGE

At FILATECH, we have delivered a wide range of premium quality 3D printing filaments which is nothing short of perfection. Utilizing the most advanced filament manufacturing technology out of prime high-quality virgin raw material, our engineers have developed a full range of regular and specialty filaments to cover all your requirements whether you are a hobbyist, a modeler, a prototype creator or a manufacturer.

We know that "the filament is the key element to precision output". Using high quality, consistent diameter tolerance and consistent color filament help enhancing the printing resolution and quality and reduce most of the issues with printing process such as nozzle clogging or running material etc.

Complying with international standards, our filaments are free from harmful or hazardous materials.



NORMAL FILAMENTS

PLA - POLYLACTIC ACID

PLA (Polylactic Acid) is one of the two most commonly used desktop 3D printing filaments (with the other being ABS filament). It is the "default" recommended material for many desktop 3D printers, and with good reason - PLA is useful in a broad range of printing applications, has the virtue of being both odorless and low-warp, and does not require a heated bed.

PLA filament is also one of the eco-friendliest 3D printer materials available; it is made from annually renewable resources (corn-starch) and requires less energy to process compared to traditional (petroleum-based) plastics. Outside of 3D printing, PLA plastic is often used in food containers, such as candy wrappers, and biodegradable medical implants, such as sutures. Our PLA filaments for 3D Printing are available in a wide range of colors in both 1.75mm and 3mm.

The latest range of PLA filaments have been developed by our expert engineers utilizing the latest technology and high quality prime virgin raw material.

The latest range of PLA filaments have been developed by our expert engineers utilizing the latest technology and high quality prime virgin raw material.



FEATURES

- Lower melting point for easier printing.
- Free from harmful or hazardous materials.
- Lower shrinkage rate.
- High rigidity with minimal flex.
- Produces higher quality prints.
- Proper for printing large parts with almost no warping
Can be printed without a heated bed.
- No chemical odors produced during printing.

OPTIONS

Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Color	Full Color Range (Special Colors By Order)
Packaging	0.5 Kg Spools 1.0 Kg Spools 30 Gr Loops (Sample)

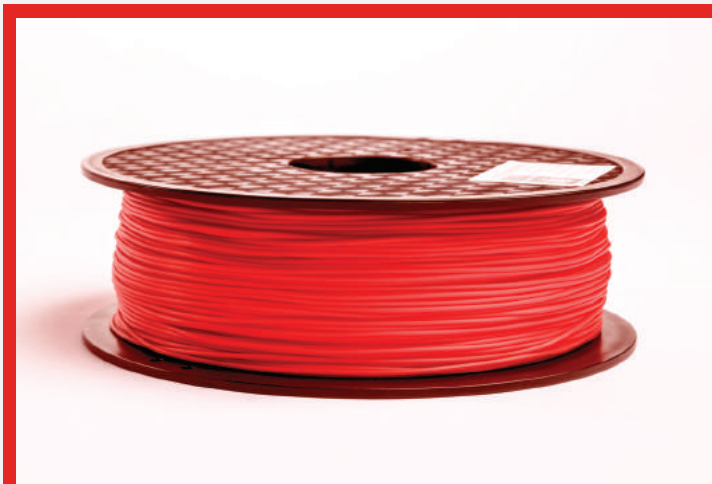
SPECIFICATIONS

Filament Material	PLA
Specific Gravity	1.25 gr/cm ³
Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Printing Information	Extruder: 190 – 220 °C Bed: 40 – 60 °C (Only for big parts)
Working Temperature	Starts losing mechanical strength at 60 °C

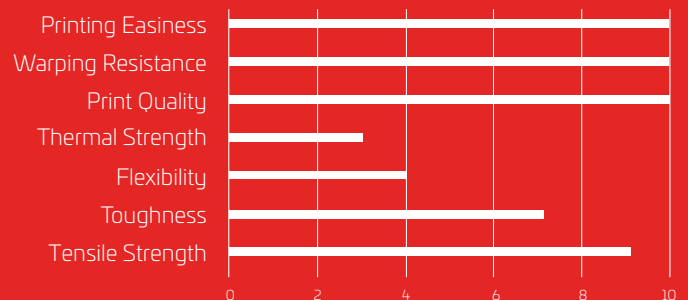
UTILIZATION GUIDE

(Comparative, Out of 10)

Tensile Strength	9
Toughness	7
Flexibility	4
Thermal Strength	3
Print Quality	10
Warping Resistance	10
Printing Easiness	10



Utilization Guide



ABS - ACRYLONITRILE BUTADIENE STYRENE

Our ABS (Acrylonitrile Butadiene Styrene) is a commonly used 3D printer material. Best used for making durable parts that need to withstand higher temperatures. In comparison to PLA filament, ABS plastic is less "brittle" and more "ductile." It can also be post-processed with acetone to provide a glossy finish. When 3D printing with ABS filament, a heated printing surface is recommended, as ABS plastic will contract when cooled leading to warped parts. ABS filament is available in both 1.75mm and 3.00mm diameter sizes.

The latest range of ABS filaments have been developed by our expert engineers utilizing the latest technology and high quality prime virgin raw material.

FEATURES

- Higher melting temperature for better mechanical strength at higher temperature.
- Free from harmful or hazardous materials.
- Low shrinkage rate.
- High rigidity combined with good flex.
- Produces objects with higher toughness.
- Proper for objects with good toughness, higher working and with minimum warping during printing.
- Shall be printed on heat bed.
- Parts can withstand temperatures of up to 80 °C without losing strength.
- Parts can be vapor smoothed for greater strength and better surface finish.
- Easy to glue with acetone.

OPTIONS

Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Color	Full Color Range (Special Colors By Order)
Packaging	0.5 Kg Spools 1.0 Kg Spools 30 Gr Loops (Sample)

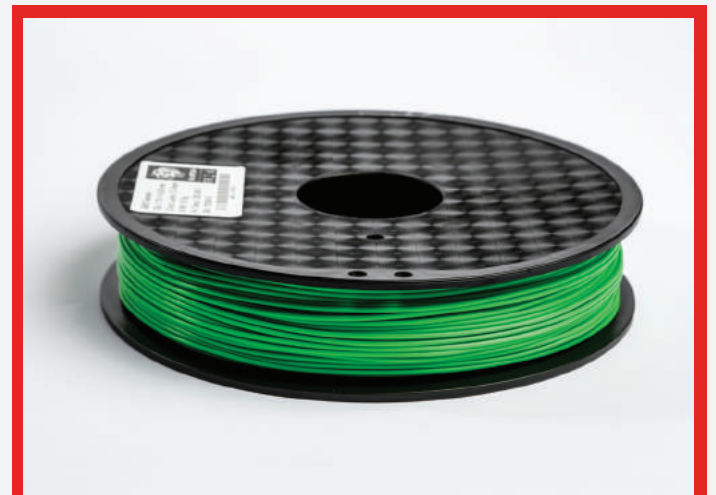
SPECIFICATIONS

Filament Material	ABS
Specific Gravity	1.05 gr/cm ³
Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Printing Information	Extruder: 220 – 260 °C Bed: 80 – 100 °C
Working Temperature	Withstands up to 80 °C

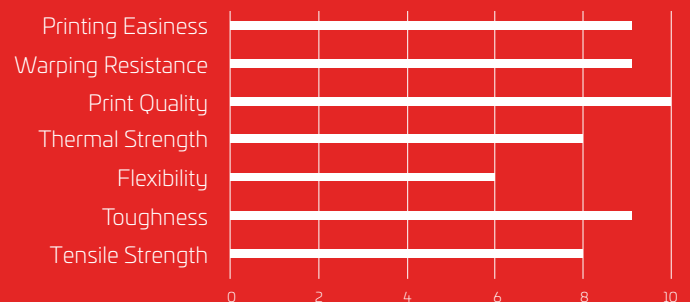
UTILIZATION GUIDE

(Comparative, Out of 10)

Tensile Strength	8
Toughness	9
Flexibility	6
Thermal Strength	8
Print Quality	10
Warping Resistance	9
Printing Easiness	9



Utilization Guide



PETG - POLYETHYLENE TEREPHTHALATE GLYCOL-MODIFIED

PETG (Polyethylene terephthalate Glycol-Modified) is a very strong and versatile material with great thermal resistance. It is the great material for printing mechanical parts. PETG is great for printing large object, because it has almost no warping. PETG filament is an industrial strength filament with several great features.

Figuratively speaking, it combines the ease of use of PLA filament with the strength and durability of ABS filament. First, its strength is much higher than PLA and it is FDA approved for food containers and tools used for food consumption.

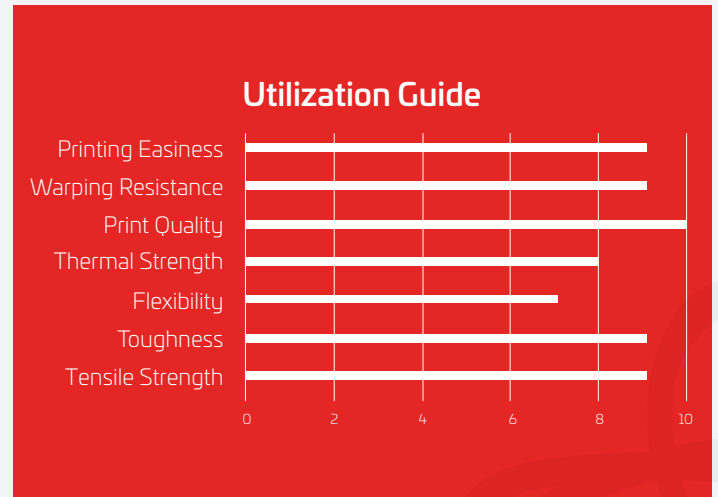
Unlike ABS filament, it barely warps, and produces no odors or fumes when printed. PET filament is not biodegradable, but it is 100% reclaimable. It's known for its clarity and is also very good at bridging. Our PETG filaments are available in a wide range of color options and they come in 1.75mm and 3mm diameter.

FEATURES

- Higher melting temperature for better mechanical strength at higher temperature.
- Free from harmful or hazardous materials.
- Low shrinkage rate.
- High rigidity combined with good flex.
- Produces objects with higher toughness.
- Proper for objects with good toughness, higher working and with minimum warping during printing.
- Shall be printed on heat bed.
- Parts can withstand temperatures of up to 80 °C without losing strength.
- Parts can be vapor smoothed for greater strength and better surface finish.
- Easy to glue with acetone.

OPTIONS

Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Color	Full Color Range (Special Colors By Order)
Packaging	0.5 Kg Spools 1.0 Kg Spools 30 Gr Loops (Sample)



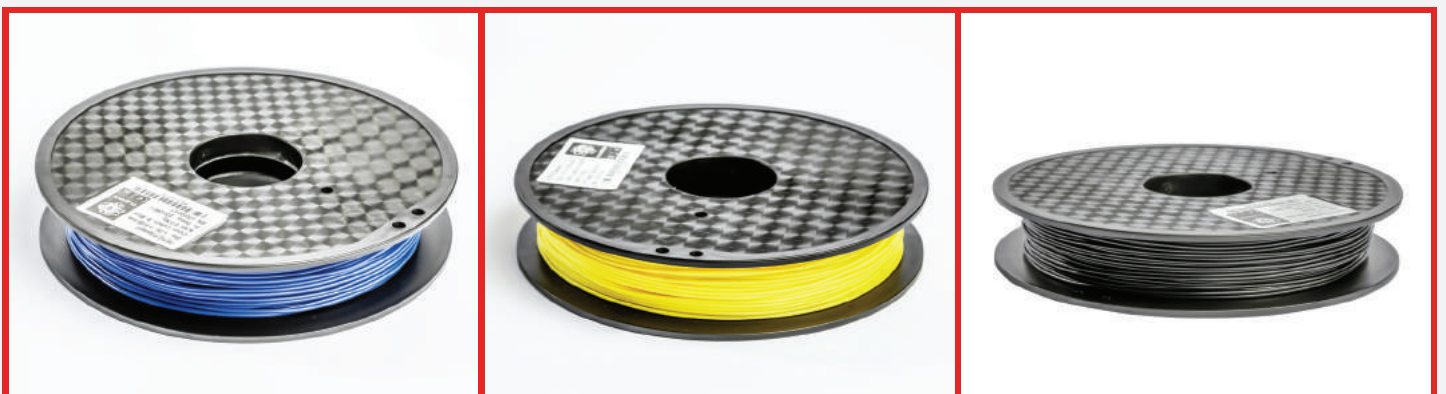
UTILIZATION GUIDE

(Comparative, Out of 10)

Tensile Strength	9
Toughness	9
Flexibility	7
Thermal Strength	8
Print Quality	10
Warping Resistance	9
Printing Easiness	9

SPECIFICATIONS

Filament Material	PETG
Specific Gravity	1.27 gr/cm ³
Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Printing Information	Extruder: 220 – 240 °C Bed: 50 – 90 °C
Working Temperature	Withstands up to 80 °C



SPECIALITY FILAMENTS

HIPS – HIGH IMPACT POLYSTYRENE

High Impact Polystyrene (HIPS) is very similar to ABS. The main difference is that HIPS plastic can be dissolved using Limonene as a solvent, therefore making it a great option as support material when printing ABS with dual extrusion printer.

HIPS filament is as easy to 3D print with as ABS but is much less likely to warp.

Our HIPS filaments are available in different colors and 1.75mm and 3mm diameter.

FEATURES

- Higher melting temperature for better mechanical strength at higher temperature.
- Free from harmful or hazardous materials.
- Low shrinkage rate.
- High rigidity combined with good flex.
- Produces objects with higher toughness.
- Proper for objects with good toughness, higher working and with minimum warping during printing.
- Shall be printed on heat bed.
- Parts can withstand temperatures of up to 80 °C without losing strength.
- Parts can be vapor smoothed for greater strength and better surface finish.
- Limonin Soluble.

SPECIFICATIONS

Filament Material	HIPS
Specific Gravity	1.07 gr/cm ³
Size	1.75 mm +/- 0.05 mm
	3.0 mm +/- 0.05 mm
Printing Information	Extruder: 220 – 230 °C
	Bed: 60 – 100 °C
Working Temperature	Withstands up to 80 °C

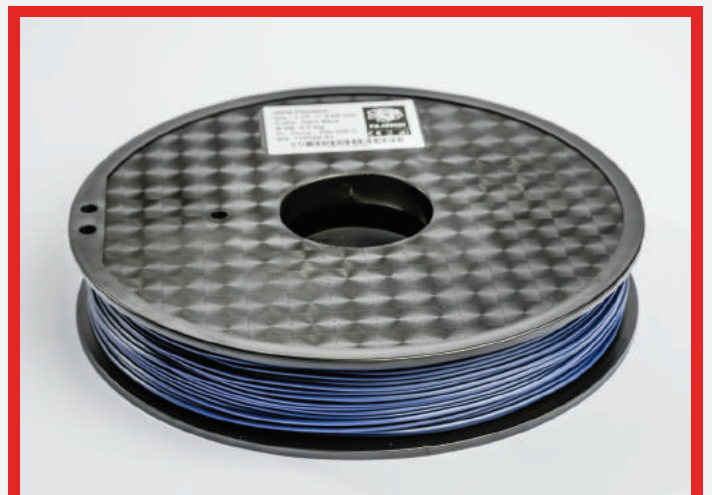
OPTIONS

Size	1.75 mm +/- 0.05 mm
	3.0 mm +/- 0.05 mm
Color	Full Color Range (Special Colors By Order)
Packaging	0.5 Kg Spools
	1.0 Kg Spools
	30 Gr Loops (Sample)

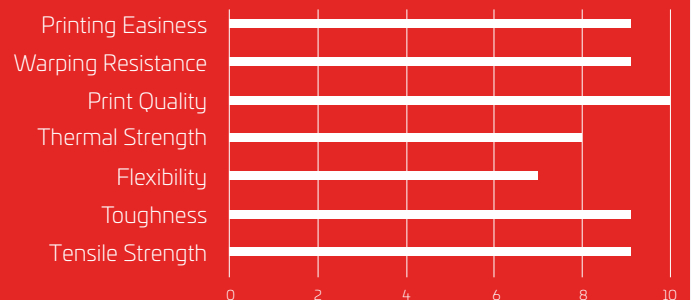
UTILIZATION GUIDE

(Comparative, Out of 10)

Tensile Strength	9
Toughness	9
Flexibility	7
Thermal Strength	8
Print Quality	10
Warping Resistance	9
Printing Easiness	9



Utilization Guide



PC – POLYCARBONATE

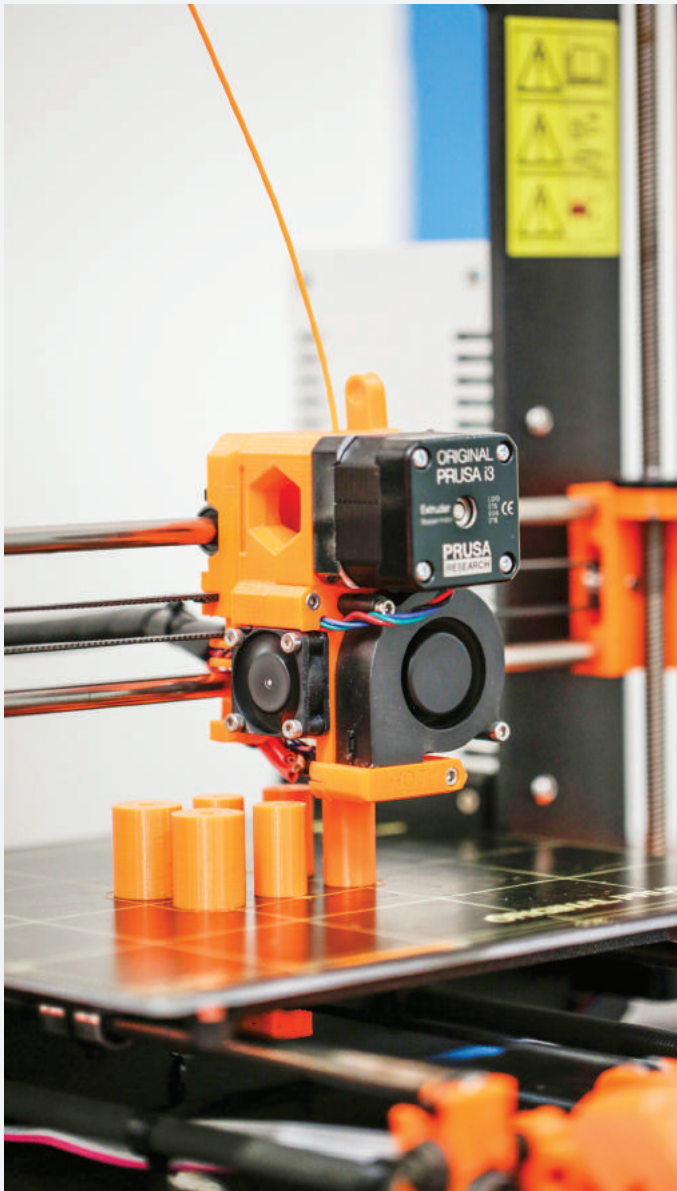
Polycarbonate (PC) Polycarbonate is strong and very resistant to impact, this material is used when making bullet-proof glass. Not only is polycarbonate an extremely tough and durable thermoplastic material it is also very resistant to temperature.

This material is malleable when cool and can bend without cracking.

PC has a very high impact strength, far greater than glass and more than ten times that of an acrylic material like PMMA.

At the same time, it has less than half the density of glass, but relatively high level of transparency. In fact, polycarbonate transmits visible light better than many kinds of glass.

It is this relatively lightweight and transparency, combined with incredible strength, which makes polycarbonate such an attractive material choice for a wide variety of commercial uses. Our Polycarbonate filaments are available in different colors and 1.75mm and 3mm diameter.



FEATURES

- Higher melting temperature for better mechanical strength at higher temperature.
- Free from harmful or hazardous materials.
- Strong, impact resistant thermoplastic.
- Produces objects with extreme toughness.
- Machine bendable at room temperature.
- Extremely durable.
- Parts can withstand temperatures of up to 90 °C and higher without losing strength.
- Transparent with excellent light transmittance.
- Dichloromethane soluble.
- Shall be printed on heat bed.

OPTIONS

Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Color	Full Color Range (Special Colors By Order)
Packaging	0.5 Kg Spools 2.0 Kg Spools 30 Gr Loops (Sample)

SPECIFICATIONS

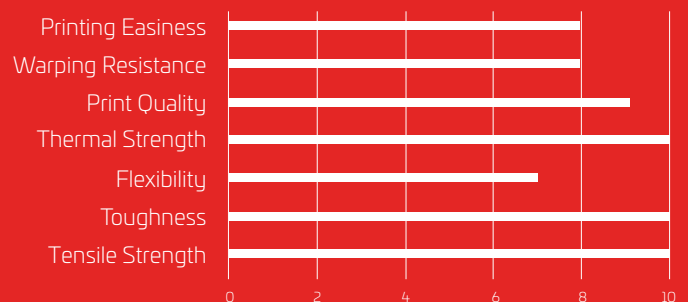
Filament Material	PC
Specific Gravity	1.20 gr/cm ³
Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Printing Information	Extruder: 270 – 310 °C Bed: 90 – 120 °C
Working Temperature	Withstands up to 90 °C

UTILIZATION GUIDE

(Comparative, Out of 10)

Tensile Strength	10
Toughness	10
Flexibility	7
Thermal Strength	10
Print Quality	9
Warping Resistance	6
Printing Easiness	6

Utilization Guide



PA – POLYAMIDE (NYLONE)

PA (Nylon) is an incredibly strong, durable, and versatile 3D printing material. Flexible when thin, but with very high inter-layer adhesion, nylon lends itself well to things like living hinges and other functional parts.

Nylon filament prints as a bright natural white with a translucent surface, and can absorb color added post process with most common, acid-based clothing dyes or synthetic cloth specific dyes.

FEATURES

- Higher melting temperature for better mechanical strength at higher temperature.
- Free from harmful or hazardous materials.
- Strong, impact resistant thermoplastic.
- Produces objects with extreme layer adhesion and toughness.
- Flexible when it's thin.
- Very durable.
- Parts can withstand temperatures of up to 80 °C and higher without losing strength.
- Can absorb color added post process.
- Shall be printed on heat bed.
- Bed adhesion with PVA-based glues.

SPECIFICATIONS

Filament Material	PA
Specific Gravity	1.1 gr/cm ³
Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Printing Information	Extruder: 235 – 270 °C Bed: 60 – 80 °C
Working Temperature	Withstands up to 80 °C

Nylon filament is extremely sensitive to moisture, so taking drying measures during storage and immediately prior to printing (using desiccant, vacuum, or elevated temperature) is highly recommended for best results. Our PA is a specially formulated 3D printing Nylon filament that comes in a variety of colors and 1.75mm and 3mm diameter.

OPTIONS

Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Color	Full Color Range (Special Colors By Order)
Packaging	0.5 Kg Spools 3.0 Kg Spools 30 Gr Loops (Sample)

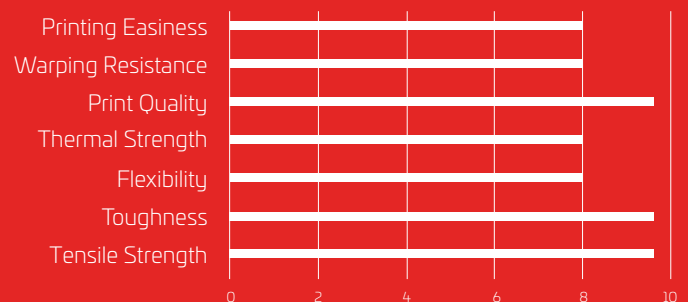
UTILIZATION GUIDE

(Comparative, Out of 10)

Tensile Strength	9.5
Toughness	9.5
Flexibility	8
Thermal Strength	8
Print Quality	9
Warping Resistance	8
Printing Easiness	8



Utilization Guide



TPE – THERMOPLASTIC ELASTOMER

TPE filament is a flexible 3D printing material that feels and acts much like flexible rubber. TPE filament can be used to make parts that can bend or must flex to fit their environment: stoppers, belts, springs, phone cases, and more.

This extremely flexible 3D printer material will allow you to create 3D prints that will have the properties of a soft

rubber. Due to its flexibility, much slower print speeds must be used to keep the filament from binding in the extruder. Our TPE 3D printing filament is available in various colors and 1.75mm and 3mm diameter.

FEATURES

- Flexible rubber-like material.
- Free from harmful or hazardous materials.
- Excellent flexural fatigue resistance.
- Produces objects with very good layer adhesion.
- Extremely flexible.
- Good tear & abrasion resistance.
- Resistance to low & high temperatures from -30°C to +140°C.
- Good colourability.
- Recyclable.
- Shall be printed on heat bed.
- Bed adhesion is usually very good but in case, Blue Painter's Tape can be a choice.

SPECIFICATIONS

Filament Material	TPE
Specific Gravity	1.2 gr/cm ³
Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Printing Information	Extruder: 210 – 255 °C Bed: 20 – 55 °C
Working Temperature	Withstands up to 100 °C

OPTIONS

Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Color	Full Color Range (Special Colors By Order)
Packaging	0.5 Kg Spools 1.0 Kg Spools 30 Gr Loops (Sample)

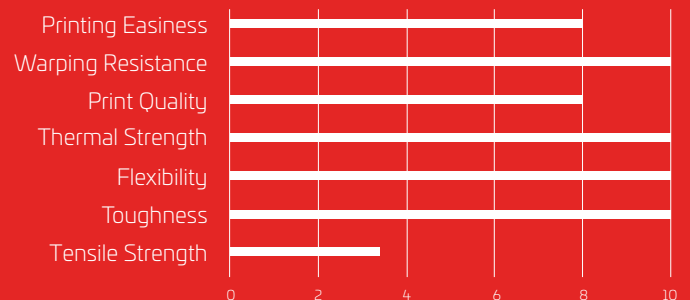
UTILIZATION GUIDE

(Comparative, Out of 10)

Tensile Strength	3.5
Toughness	10
Flexibility	10
Thermal Strength	10
Print Quality	8
Warping Resistance	10
Printing Easiness	8



Utilization Guide



TPU – THERMOPLASTIC POLYURETHANE

TPU (Thermoplastic Polyurethane) is an elastic, oil/grease resistant, and abrasion-resistant material with a shore hardness of 95A.

TPU Plastic has several applicable uses including automotive instrument panels, caster wheels, power tools, sporting goods, medical devices, drive belts, footwear, inflatable rafts, and a variety of extruded film, sheet and

profile applications. It is also commonly used in mobile phone cases.

Our TPU Filament is available in different colors and 1.75mm and 3mm diameter.

FEATURES

- Flexible elastic material.
- Free from harmful or hazardous materials.
- Excellent flexural fatigue resistance.
- Produces objects with very good layer adhesion.
- Extremely flexible.
- Good tear & abrasion resistance.
- Resistance to low & high temperatures from -30 °C to +140 °C.
- Good colourability.
- Recyclable.
- Shall be printed on heat bed.
- Bed adhesion is usually very good but in case, Blue Painter's Tape can be a choice.

SPECIFICATIONS

Filament Material	TPU
Specific Gravity	1.2 gr/cm ³
Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Printing Information	Extruder: 240 – 260 °C Bed: 40 – 60 °C
Working Temperature	Withstands up to 80 °C

OPTIONS

Size	1.75 mm +/- 0.05 mm 3.0 mm +/- 0.05 mm
Color	Full Color Range (Special Colors By Order)
Packaging	0.5 Kg Spools 2.0 Kg Spools 30 Gr Loops (Sample)

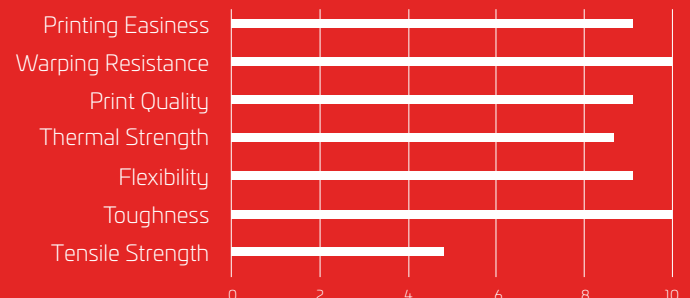
UTILIZATION GUIDE

(Comparative, Out of 10)

Tensile Strength	4.5
Toughness	10
Flexibility	9
Thermal Strength	8.5
Print Quality	9
Warping Resistance	10
Printing Easiness	9



Utilization Guide



SPECIAL ORDERS:

We can accept orders for special filaments and colors, based on below information from the customer and subject to final approval:

CUSTOMER REGISTRATION:

Name	<input type="text"/>
Family Name	<input type="text"/>
Designation	<input type="text"/>
Company Name	<input type="text"/>
Address	<input type="text"/>
Tell	<input type="text"/>
Fax	<input type="text"/>
Email	<input type="text"/>
Web	<input type="text"/>

TECHNICAL REQUIREMENT:

Carrier of the Filament (Plastic)

Color (Pantone or RAL number or a color sample)

Additives (Carbon fiber, metal powders, wood, ...)

Diameter (1 to 5 mm)

Spool Weight

Spool Type and Color

GENERAL TERMS:

Minimum Order quantity for optional colors is 25Kg, for special colors subject to final approval.

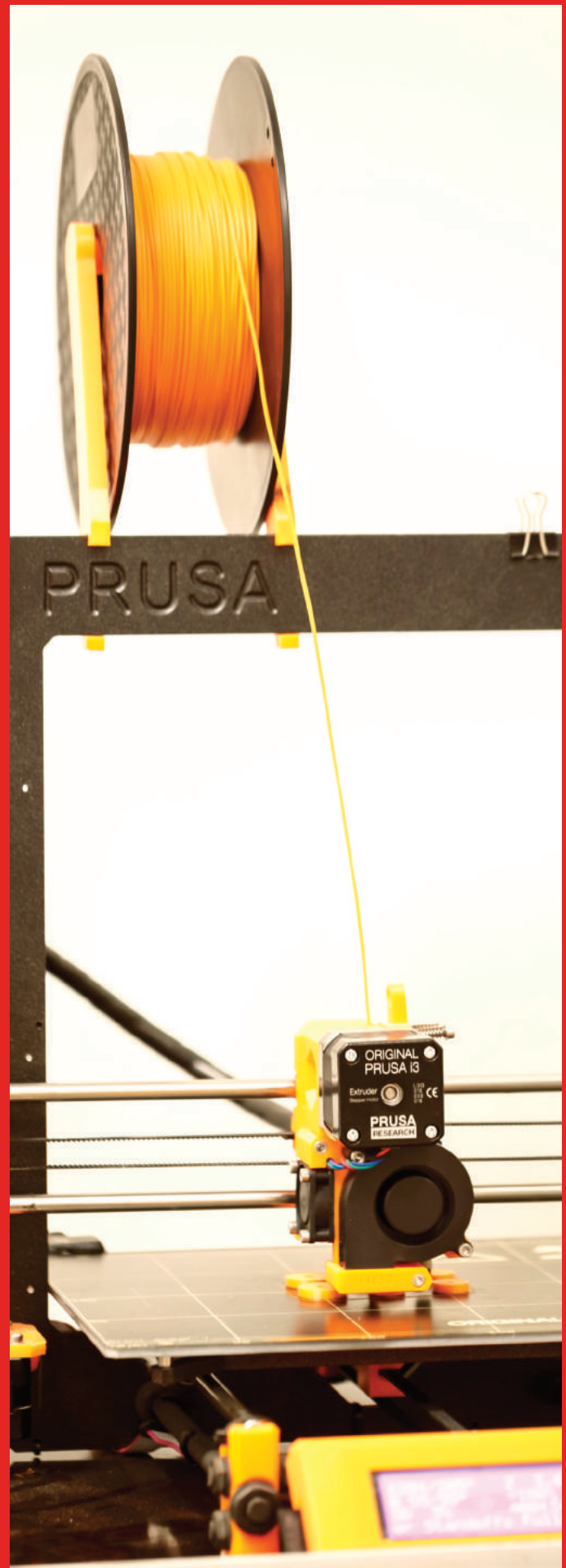
Minimum Order quantity for optional Filament size is 50 Kg , for special sizes subject to final approval.

Minimum Order quantity for spool weight and color is 25Kg, for special spool weight, subject to final approval.

Packing for 0.5 Kg and 1.0 Kg Spools:

Vacuumed in PE plastic bag with a 20 gr silica gel packet, boxed in Filatech product box and packaged in FilaTech master box.

Packing for special spool weights, subject to final approval.





FILATECH
Making It Better



CONTACT US:

LOCATION: Warehouse No. 23, Shed No. 30,
Technology Park, Al Hamra Island, RAK, UAE.

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FAX: +971 (07) 243 92 66

MAIL: info@fila-tech.com, sales@fila-tech.com