ROSA 3D®
FILAMENTS

CATALOGUE

TECHNICAL FILAMENTS FOR 3D PRINTING



CERT INTERNATIONAL ISO 9001 CERTIFIED QMS-1543/A

CERT INTERNATIONAL ISO 14001 CERTIFIED EMS-1544/A

TIGER TAG RFID

EU

rosa3d.pl

2026

MAIN AWARD

18th Edition for 3D Printing Days

Kielce, Poland

FOR THE LOW-WEIGHT TPU FLEX LW & PLA LW AERO SERIES



2026

AWARD

'Forbes Diamonds 2026'

LAUREATE OF THE RANKING FOR THE HIGHEST AVERAGE ANNUAL VALUE GROWTH

2025

AWARD

'Forbes Diamonds 2026'

LAUREATE OF THE RANKING FOR THE HIGHEST AVERAGE ANNUAL VALUE GROWTH



2024

DISTINCTION

16th Edition for 3D Printing Days

Kielce, Poland

FOR THE PLA MAGIC SERIES OF TWO- AND THREE-COLOUR 3D PRINTING FILAMENTS.



2021

DISTINCTION

13th Edition for 3D Printing Days

Kielce, Poland

FOR THE RAINBOW SILK SERIES

We pioneered multicolour filament production in Poland, introducing the first two-colour filament in 2023. We remain the only European company offering three-colour co-extruded filaments.

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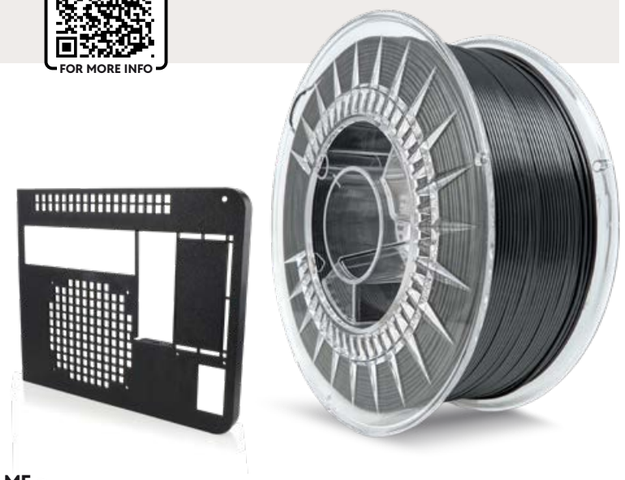
ROSA 3D FILAMENTS

PETG ESD

SCAN ME FOR MORE INFO

Specialized filament for printing components that protect sensitive parts from electrostatic discharge, designed for industrial and electronic applications.

- EFFECTIVE ESD PROTECTION
- EASY TO PRINT
- LOW SHRINKAGE



ROSA 3D FILAMENTS

PETG Standard HS

EN 71-3 TOY SAFETY STANDARD

SCAN ME FOR MORE INFO

A material that combines easy, fast, and stable printing with durability. Selected colours tested to the EN 71-3 toy safety standard.

- EASY TO PRINT, MINIMAL STRINGING
- WIDE RANGE OF OPAQUE & TRANSPARENT COLOURS
- APPROVED FOR FOOD CONTACT





ROSA 3D FILAMENTS

PETG + PTFE

SCAN ME FOR MORE INFO

Technical self-lubricating filament for printing moving parts with a low coefficient of friction, ensuring smooth and reliable operation without additional lubrication.

- SELF-LUBRICATING PROPERTIES
- HIGH MECHANICAL STRENGTH
- EASY TO PRINT





ROSA 3D FILAMENTS

PETG Structure HS

SCAN ME FOR MORE INFO

Advanced PETG-based blend that produces high-quality prints with a unique matt finish, effectively hiding layer lines.

- HIGH SPEED
- MATT SURFACE
- HIGH-QUALITY PRINTS



ROSA 3D FILAMENTS

PETG Magic Army

SCAN ME FOR MORE INFO

Three-colour 3D filament inspired by military camouflage colors.

- TRI-COLOUR
- CHEMICAL RESISTANCE
- HIGH SPEED PRINTING



ROSA 3D FILAMENTS

PETG + 10CF

SCAN ME FOR MORE INFO

Designed for printing durable structural elements and machine parts resistant to high temperatures.

- HIGHLY VERSATILE
- VICAT 80 °C
- MATT SURFACE



ROSA 3D FILAMENTS

PETG V0 FR

COMPLIANT WITH UL 94 V-0

SCAN ME FOR MORE INFO

Self-extinguishing, halogen-free formulation (compliant with UL 94 V-0), ideal for applications ranging from electronic device enclosures to protective housings.

- FLAME-RETARDANT TO UL 94 V-0 RATING
- HALOGEN FREE
- HDT 63° C



ROSA 3D FILAMENTS

PETG TRUE MATT

SCAN ME FOR MORE INFO

3D printing filament designed for aesthetic prints, with a matt finish and less visible layer lines.

- MATT FINISH
- REDUCED LAYER VISIBILITY
- EASY TO PRINT





ROSA 3D FILAMENTS

PETG MDT

SCAN ME FOR MORE INFO

X-Ray

Material detectable by both magnetic and X-ray detection systems, specifically designed for the food industry.

- X-RAY AND METAL DETECTABLE
- APPROVED FOR FOOD CONTACT
- RESISTANT TO MOLD



ROSA 3D FILAMENTS

PETG + 30GF

SCAN ME FOR MORE INFO

PET-G-based composite reinforced with 30% glass fibre, designed for printing strong and rigid parts exposed to high temperatures, mechanical loads and chemicals.

- HIGH STRENGTH AND RIGIDITY
- CHEMICAL RESISTANCE
- LOW TENDENCY TO DEFORM

ROSA 3D FILAMENTS

PETG HT

SCAN ME FOR MORE INFO

Advanced material with enhanced temperature resistance, designed for durable and functional prints.

- HIGH TEMPERATURE RESISTANCE
- ODOURLESS PRINTING
- SAFE FOR FOOD CONTACT



ROSA 3D FILAMENTS

PETG CARBONLOOK

SCAN ME FOR MORE INFO

PET-G CarbonLook combines the appearance of carbon fibre with the ease of printing typical of PET-G. The material offers low stringing, excellent layer adhesion, no shrinkage and easy printing.

- LESS VISIBLE LAYER LINES
- STABLE, SHRINK-FREE PRINTING
- MORE PRACTICAL THAN PLA
- BETTER-LOOKING PRINTS WITHOUT SANDING



ROSA 3D FILAMENTS

TPU ROSA-FLEX 85A

SCAN ME FOR MORE INFO

Flexible thermoplastic polyurethane, ideal for technical applications requiring mechanical strength and tensile strength.

- FLEXIBLE
- CHEMICAL RESISTANCE
- ELONGATION 520%
- APPROVED FOR FOOD CONTACT



ROSA 3D FILAMENTS

TPU 75D

SCAN ME FOR MORE INFO

Automotive 15 Glass Fiber

Semi-flexible TPU material reinforced with 15% glass fiber. This additive makes the print rigid while still allowing it to deform under load without cracking.

- ELASTICITY
- HEAT RESISTANT (HDT-A 155 °C, HDT-B 110 °C)
- STIFFNESS
- CHEMICAL RESISTANCE





SCAN ME FOR MORE INFO

ROSA 3D FILAMENTS

TPU ROSA-FLEX 96A

Thermoplastic polyurethane designed for intermediate users, ideal for learning to print with flexible materials.

- FLEXIBLE
- CHEMICAL RESISTANCE
- ELONGATION 350%





SCAN ME FOR MORE INFO

ROSA 3D FILAMENTS

TPU Flex LW

Flexible filament that foams during printing, enabling the creation of soft and resilient lightweight parts

- ACTIVE FOAMING
- VERY GOOD LAYER ADHESION
- HIGH IMPACT RESISTANCE



SCAN ME FOR MORE INFO

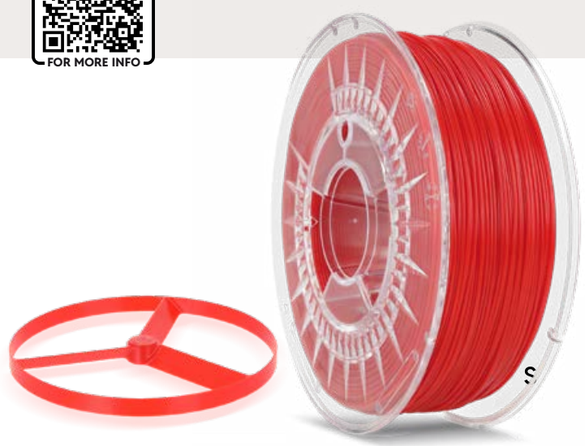
ROSA 3D FILAMENTS

TPU HardTech + 83D

Impact - Abrasive - UV - H2O - microbe- resistant

An exceptionally durable filament resistant to microorganisms, water, low temperatures, UV radiation, abrasion, impacts, and high temperatures (HDT-B 91 °C).

- HIGH STIFFNESS
- IMPACT RESISTANCE
- RESISTANT TO MICROORGANISMS



SCAN ME FOR MORE INFO

ROSA 3D FILAMENTS

PLA LW AERO

Innovative filament with a foaming agent, enabling the production of lightweight, low-density PLA prints.

- LOW DENSITY
- EASY PRINTING
- HIGH PRINT STIFFNESS



ROSA 3D FILAMENTS

PC-PBT

SCAN ME FOR MORE INFO

HT-UV-IMPACT

Industrial filament designed for automotive applications. The addition of PBT to polycarbonate increases elasticity and facilitates 3D printing (reduces shrinkage).

- HIGH IMPACT RESISTANCE
- HEAT RESISTANT: 90 – 110°C
- UV RESISTANT



ROSA 3D FILAMENTS

PC + PTFE

SCAN ME FOR MORE INFO

The combination of polycarbonate and PTFE (Teflon) provides exceptional durability, temperature resistance, and minimal friction.

- SELF-LUBRICATING
- LOW FRICTION
- VICAT 145 °C



ROSA 3D FILAMENTS

PC/PBT + 15CF

SCAN ME FOR MORE INFO

HT-UV-IMPACT

Advanced engineering filament reinforced with 15% carbon fiber. It combines extreme durability, high stiffness, resistance, and antistatic properties.

- HIGH THERMAL RESISTANCE (90 – 110 °C)
- EXCELLENT UV AND OUTDOOR RESISTANCE
- EXCEPTIONAL STIFFNESS AND MECHANICAL STRENGTH
- ANTISTATIC PROPERTIES



ROSA 3D FILAMENTS

PA12 + 15CF

SCAN ME FOR MORE INFO

AUTOMOTIVE CHOICE

This industrial-grade composite for demanding applications combines low-hygroscopic PA12 nylon with carbon fibres, enabling fast printing of durable mechanical parts.

- HEAT RESISTANCE UP TO 170 °C
- HIGH MECHANICAL STRENGTH
- LOW DENSITY
- IMPACT RESISTANCE



ROSA 3D FILAMENTS

PC/PBT + 15GF

SCAN ME FOR MORE INFO

HT-UV-IMPACT

Technical filament designed to work in harsh conditions. Reinforced with 15% glass fiber, it offers exceptional stiffness

- ENHANCED THERMAL RESISTANCE (90-110°C)
- UV AND WEATHER RESISTANCE
- INCREASED IMPACT AND DYNAMIC LOAD RESISTANCE
- CHEMICAL RESISTANCE



ROSA 3D FILAMENTS

PC-ABS FR V0 RAILWAY

EN 45545 RAILWAY STANDARD

SCAN ME FOR MORE INFO

Halogen-free technical filament for printing durable parts that require enhanced fire safety and compliance with railway industry standards.

- ENHANCED FIRE SAFETY
- HIGH STRENGTH
- HIGH INTERLAYER ADHESION
- EN 45545 RAILWAY STANDARD



ROSA 3D FILAMENTS

ASA

SCAN ME FOR MORE INFO

Filament for outdoor applications, resistant to UV radiation, moisture, and high temperatures, maintaining durability and aesthetics even in harsh weather conditions.

- UV RESISTANCE
- HIGH TEMPERATURE RESISTANCE (VICAT 94 °C)
- EASIER TO PRINT THAN ABS STANDARD



ROSA 3D FILAMENTS

ASA + 5Kevlar

SCAN ME FOR MORE INFO

Technical filament that combines high mechanical strength with a lightweight, rigid structure ideal for functional outdoor and engineering-grade prints.

- HIGH MECHANICAL RESISTANCE
- LIGHTWEIGHT
- HIGH STIFFNESS





ROSA 3D FILAMENTS

ABS + Matt

SCAN ME FOR MORE INFO

Excellent processing properties, such as good flow, vibrant colors, and excellent layer adhesion, making it suitable for a wide range of applications.

- VICAT 96°C
- GREAT PRECISION
- MATT SURFACE



ROSA 3D FILAMENTS

ASA + 10CF

SCAN ME FOR MORE INFO

High-performance composite material that combines weather-resistant ASA copolymer with 10% carbon fiber content.

- 10% CARBON FIBER REINFORCED
- HEAT RESISTANCE, (VICAT B 95 °C)
- HIGH STIFFNESS

ROSA 3D FILAMENTS

ABS V0 FR

SCAN ME FOR MORE INFO

Designed for the electrical, electronic, and automotive industries, it is suitable for printing connectors, electrical boxes, and housings.

- FLAME-RETARDANT TO UL 94 V-0 RATING
- DURABILITY
- VICAT 109°C



ROSA 3D FILAMENTS

ASA + 10GF

SCAN ME FOR MORE INFO

Advanced composite material that combines the durability of ASA copolymer with a 10% addition of glass fiber.

- ELECTRICALLY INSULATING MATERIAL
- WATER AND UV RESISTANCE
- HEAT RESISTANCE
- HIGH STIFFNESS



ROSA 3D FILAMENTS

PCTG

SCAN ME FOR MORE INFO

Polyester-based filament, offering an alternative to PETG with higher impact resistance, heat resistance and improved clarity.

- HIGH CHEMICAL RESISTANCE
- HDT 63 °C
- FOOD CONTACT



ROSA 3D FILAMENTS

PCTG + 10GF

SCAN ME FOR MORE INFO



Glass fiber–reinforced technical material with high impact and chemical resistance.

- INCREASED RESISTANCE TO EXTERNAL FACTORS
- LOW SHRINKAGE
- EXCELLENT LAYER ADHESION

ROSA 3D FILAMENTS

PCTG + 10CF

SCAN ME FOR MORE INFO

Technical PCTG-based filament reinforced with carbon fiber, providing high stiffness and damage resistance for industrial applications.

- INCREASED TENSILE STRENGTH
- HIGH STIFFNESS
- REDUCED RISK OF CRACKING



ROSA 3D FILAMENTS

PLA Plus ProSpeed

(IMPACT)

SCAN ME FOR MORE INFO

Industrial 3D printing filament designed for long, high-speed printing, offering high mechanical strength and biodegradability.

- HIGH MECHANICAL STRENGTH (HIGHER THAN ABS)
- OPTIMIZED FOR FAST, CONTINUOUS PRINTING
- BIODEGRADABLE MATERIAL
- APPROVED FOR FOOD CONTACT





ROSA 3D FILAMENTS

ABS Medical

ISO 10993

SCAN ME FOR MORE INFO



Specialized filament for medical applications, combining the durability of ABS with certified biocompatibility and safety for skin and food contact.

- BIOCOMPATIBLE FOR UP TO 30 DAYS
- APPROVED FOR FOOD CONTACT
- HIGH MECHANICAL STRENGTH

OneFIL3D

PETG

SCAN ME FOR MORE INFO

Budget-friendly and versatile 3D printing filament that combines high strength, flexibility, and ease of printing, making it suitable for functional parts and prototypes.

- HIGH RESISTANCE TO IMPACTS, BENDING, AND CRACKING
- GREATER STRENGTH AND DURABILITY THAN PLA
- MOISTURE RESISTANT
- LOW COST



ROSA 3D FILAMENTS

ABS-X

(IMPACT)

SCAN ME FOR MORE INFO

Technical filament designed for printing rigid, durable end-use, mechanical and functional parts.

- STIFFER THAN ABS+
- LOW DENSITY – 1.04 G/CM^3
- VICAT SOFTENING TEMPERATURE – 94 °C



ROSA 3D FILAMENTS

PLA Speed Matt

SCAN ME FOR MORE INFO

The perfect combination of speed and outstanding aesthetics. An excellent choice for rapid prototyping, concept models, gadgets, figurines and decorative parts.

- FAST PRINTING
- MATT FINISH
- EASY TO PRINT





NEW

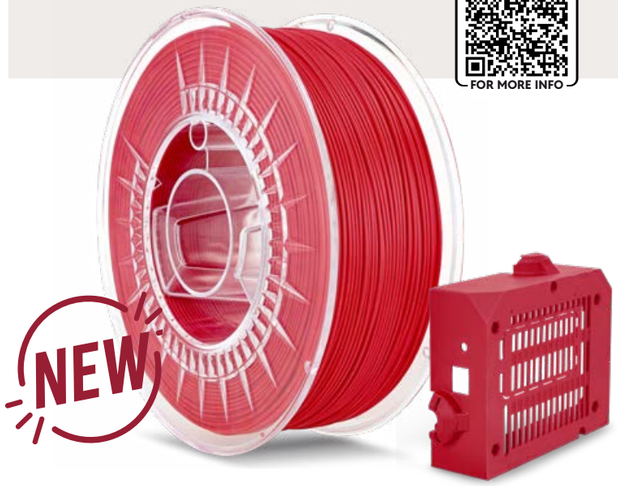
ROSA 3D FILAMENTS

PP-GF30

SCAN ME FOR MORE INFO

Technical composite filament designed for printing lightweight, durable end-use parts exposed to sudden impacts, high temperatures and chemicals. Reinforced with 30% glass fiber.

- LOW DENSITY – 1.12 G/CM^3
- THERMAL AND CHEMICAL RESISTANCE
- ELASTIC MODULUS – 5297 MPA



NEW

ROSA 3D FILAMENTS

PLA ESD

SCAN ME FOR MORE INFO

Antistatic PLA-based technical filament designed for printing parts that protect sensitive electronics from electrostatic discharge.

- ANTISTATIC PROPERTIES
- HIGH RIGIDITY
- EASY TO PRINT
- VARIOUS COLOURS

ROSA 3D FILAMENTS

ASA-X

SCAN ME FOR MORE INFO

Rigid and durable technical filament designed for printing structural and end-use parts, including components intended for outdoor applications.

- HIGHER RIGIDITY THAN STANDARD ASA
- UV AND WEATHER RESISTANCE
- VICAT SOFTENING TEMPERATURE – 98 °C



ROSA 3D FILAMENTS

PLA-CF Matt Home Decor

SCAN ME FOR MORE INFO

Easy-to-print PLA filament with added carbon fiber, offering an elegant matt finish and ideal for visually appealing decorative prints.

- MATT FINISH
- EASY TO PRINT
- HIDDEN LAYER LINES
- CAN BE PRINTED WITH A BRASS NOZZLE



ROSA 3D FILAMENTS

PLA-CARBONLOOK

SCAN ME FOR MORE INFO

3D printing filament combining a striking carbon-fibre look with an attractive surface finish and easy printing.

- EASY TO PRINT / NON-ABRASIVE
- CARBON-FIBRE LOOK
- SATIN FINISH
- REDUCED LAYER VISIBILITY



ROSA 3D FILAMENTS

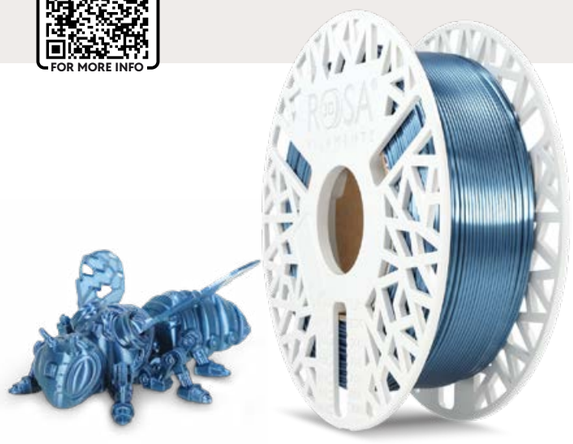
PLA SILK

EN 71-3 TOY SAFETY STANDARD

SCAN ME FOR MORE INFO

This filament series impresses with its depth of colour and distinctive silky shine. It includes colours that imitate metals such as copper, bronze, steel, silver and gold. Selected colours tested to the EN 71-3 toy safety standard.

- SILKY SHINE
- LAYER LINE MASKING
- EASY TO PRINT





SCAN ME FOR MORE INFO

ROSA 3D FILAMENTS

PLA STARTER

EN 71-3 TOY SAFETY STANDARD

Easy-to-use filament for everyday 3D printing, delivering consistent results and aesthetically pleasing prints. Selected colours tested to the EN 71-3 toy safety standard.

- EASY TO PRINT
- GOOD SURFACE QUALITY
- VERSATILE APPLICATIONS



SCAN ME FOR MORE INFO

ROSA 3D FILAMENTS

PLA GALAXY

PLA filament with added shiny glitter particles that reduce layer visibility and improve the appearance of prints. Easy to use. Does not require hardened nozzles. Ideal for beginners and professionals.

- VISIBLE GLITTER PARTICLES
- EASY TO PRINT
- IDEAL FOR DECORATIVE PROJECTS

ROSA 3D FILAMENTS

PLA MAGIC

EN 71-3 TOY SAFETY STANDARD

SCAN ME FOR MORE INFO

3D printing filament designed to create striking, visually changing prints without the need for specialised equipment. Selected colours tested to the EN 71-3 toy safety standard.

- MULTICOLOUR EFFECT
- EFFECT OF “MAGICAL” VISUAL TRANSITIONS
- EASY TO PRINT



ROSA 3D FILAMENTS

BIOWOOD

SCAN ME FOR MORE INFO

Composite 3D printing filament with natural wood particles, allowing models to achieve an appearance and texture similar to real wood.

- BIODEGRADABLE MATERIAL
- NATURAL WOOD-LIKE SURFACE
- CONTAINS WOOD PARTICLES
- CAN BE SANDED, STAINED AND PAINTED



ROSA 3D FILAMENTS

BIOCREATE (PLA HT)

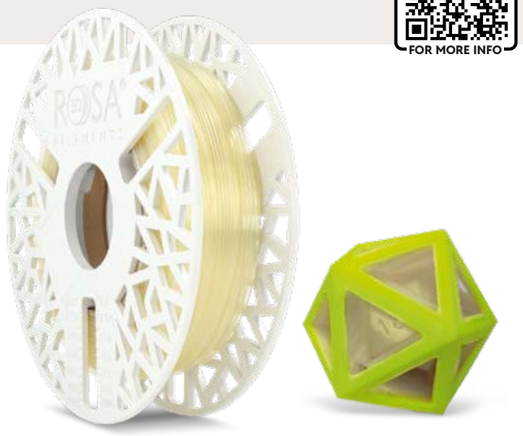
SCAN ME FOR MORE INFO

Bio-based and biodegradable 3D printing filament combining ease of use with an aesthetic finish and suitability for more demanding projects.

- VICAT 160°C (HT)
- NATURALLY DERIVED RAW MATERIAL
- SMOOTH, SEMI-MATT SURFACE
- EASY TO PRINT



SCAN ME FOR MORE INFO



ROSA 3D FILAMENTS

PVA

Water-soluble support filament for 3D printing, enabling easy support removal and the printing of highly complex models without the risk of damaging the part.

- SOLUBLE IN WARM WATER
- COMPATIBLE WITH PLA, PETG, TPU AND PA
- ENABLES PRINTING OF COMPLEX GEOMETRIES

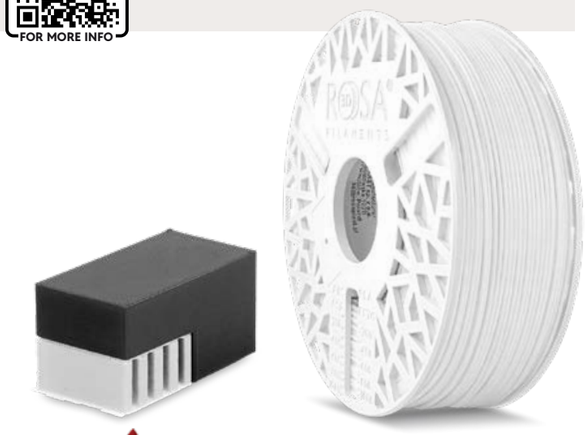
ROSA 3D FILAMENTS

HIPS

SCAN ME FOR MORE INFO

Durable 3D printing material with a satin finish. Ideal as a support material for ABS thanks to its solubility in d-limonene, as well as for models requiring mechanical post-processing.

- SOLUBLE IN D-LIMONENE
- HIGH STRENGTH
- SATIN SURFACE
- SUITABLE FOR SANDING AND PAINTING



ROSA 3D FILAMENTS

PLA LITHOPHANE

SCAN ME FOR MORE INFO

High-quality 3D printing material ideal for creating lithophanes, backlit images and photolamps. It provides high precision printing, excellent contrast and ease of use even for beginners.

- INCLUDES COLOURS FROM THE CMYK RANGE
- EASY TO PRINT
- COLOUR-BLENDING EFFECT



SCAN ME FOR MORE INFO



NEW

ROSA 3D FILAMENTS

PEBA-UV

PEBA (Polyether Block Amide) is an advanced flexible filament combining exceptional elasticity, low weight and high mechanical strength. It stands out for its excellent shape recovery.

- HARDNESS 92 ShA
- REPEATABLE REBOUND PERFORMANCE
- LOW DENSITY & ABRASION RESISTANCE
- LOW-TEMP ELASTICITY DOWN TO -50°C

ROSA 3D FILAMENTS

PLA RAINBOW

(MULTICOLOUR)

SCAN ME FOR MORE INFO

A multicolour effect makes different sections of the print change colour, creating a unique look without filament changes. The material retains the familiar benefits of PLA.

- MULTIPLE COLOUR VARIANTS
- EASY PROCESS CONTROL
- LOW SHRINKAGE
- GOOD DETAIL QUALITY

DISTINCTION



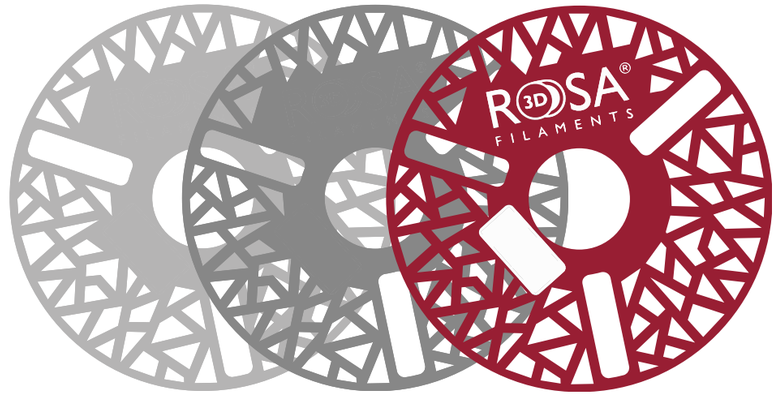
BUDGET PRODUCTS OneFIL3D:

- PLA
- PETG
- ABS



COMING SOON:

- TPU MATT
- PHA
- PC + CF
- ASA LW



ROSA3D SETS:

PLA PASTEL 6x350G



PETG GALAXY 4x1KG



EDUCATION 6x1KG



SCAN FOR MORE

COMPLEMENTARY PRODUCTS:

3D PRINTERS



ADHESIVES



ACCESSORIES



FILAMENT DRYERS



ABOUT ROSA3D

47 YEARS
OF MATERIALS ENGINEERING

From plastic extrusion expertise to advanced 3D printing materials

TODAY

One of Europe's widest technical filament portfolios

We create high-quality, repeatable products that meet the requirements of industrial, technical and large format printing

2018

ROSA3D FILAMENTS brand is created

Based on our technical knowledge and experience, we started producing 3D printing filaments under ROSA3D brand

1979

Plastic extrusion expertise begins

We have specialized in industrial production using plastic extrusion since 1979,

MATERIAL KNOW-HOW

Professional & experienced team and modern machinery

CERTIFIED QUALITY

Quality Management System ISO 9001:2015 & Environmental Management System ISO 14001

TECHNICAL PORTFOLIO

Decades of experience in plastic extrusion and material processing

SMART IDENTIFICATION

Open source RFID TT system. It could be tailored for Individual OEM Brand



Manufacturing facility in Hipolitów, Poland

WHERE OUR FILAMENTS PERFORM:

AUTOMOTIVE | TOOLING | R&D | MEDICAL | INDUSTRIAL | TECHNICAL & LARGE-FORMAT

INDIVIDUAL ORDERS

OEM

Your brand
Our expertise
High-quality filaments

ROSA3D is an experienced OEM and custom filament production partner, delivering high-quality 3D printing filaments tailored to your company's needs.

1 CUSTOM MATERIALS

Choose from our range of proven materials, develop a dedicated compound, or use your own material.

2 CUSTOM SPOOL

Different spool types, refill options, colours and sizes are available, including custom designs. Up to 16 kg spools.

3 PACKAGING OPTIONS

Individual boxes, multi-packs or bulk solutions tailored to your market and distribution needs.

4 BRANDING & CUSTOMIZATION

Custom labels, box designs and branding elements to strengthen your brand identity.

PRIVATE LABEL FILAMENT SOLUTIONS



Are you looking for a reliable and trusted partner?

We will be proud to produce Your Brand

TigerTag – smart 3D filament identification

Each spool is equipped with an NFC TigerTag that allows automatic reading of material parameters by a 3D printer or smartphone.

What is TigerTag?

An open filament identification system. The NFC tag stores key data such as material name, diameter, color, printing temperatures, compatible profiles, and documentation.

BENEFITS:

Fast data access with **a single phone tap**

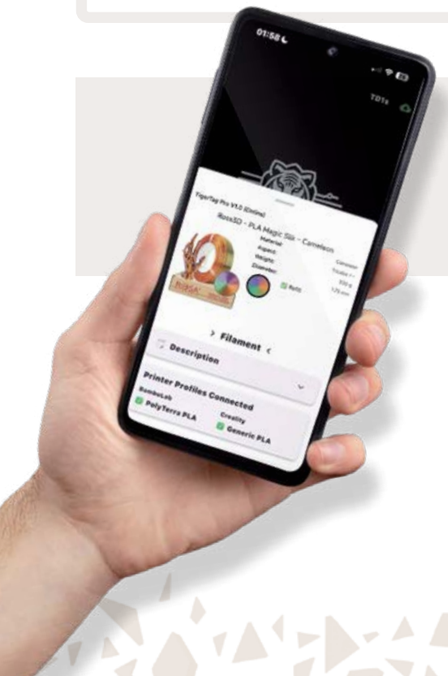
Quick access to **TDS, SDS, instructional videos, and photos**

Saves time and reduces errors during print setup

Compatible with **many 3D printers**

Offline version (parameters stored on the tag) and **online version** (additional information in the app)

Always up-to-date information, updated online by the manufacturer



TigerTag – Smart Filaments for the Future!

Fast access to parameters, easy identification, and maximum convenience for hobbyists and professionals alike.

DOWNLOAD APP

1. DOWNLOAD APP
2. ENABLE NFC
3. SCAN TIGER TAG

GET IT ON Google Play

Download on the App Store

NOTES

ROSA 3D®
FILAMENTS

- 47 YEARS OF EXPERIENCE
- HIGH QUALITY FROM POLAND
- ISO 9001 & 14001 CERTIFIED
- WIDE RANGE OF FILAMENTS
- FAST EU DELIVERY
- TECHNICAL SUPPORT

Polish manufacturer • European quality

ROSA PLAST Sp. z o.o
ul. Hipolitowska 102B, 05-074 Hipolitów, Poland
tel. +48 22 783 62 62
email: eshop@rosa3d.pl | www.rosa3d.pl

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